

Artemisinin, 1

2

FIGURE 1

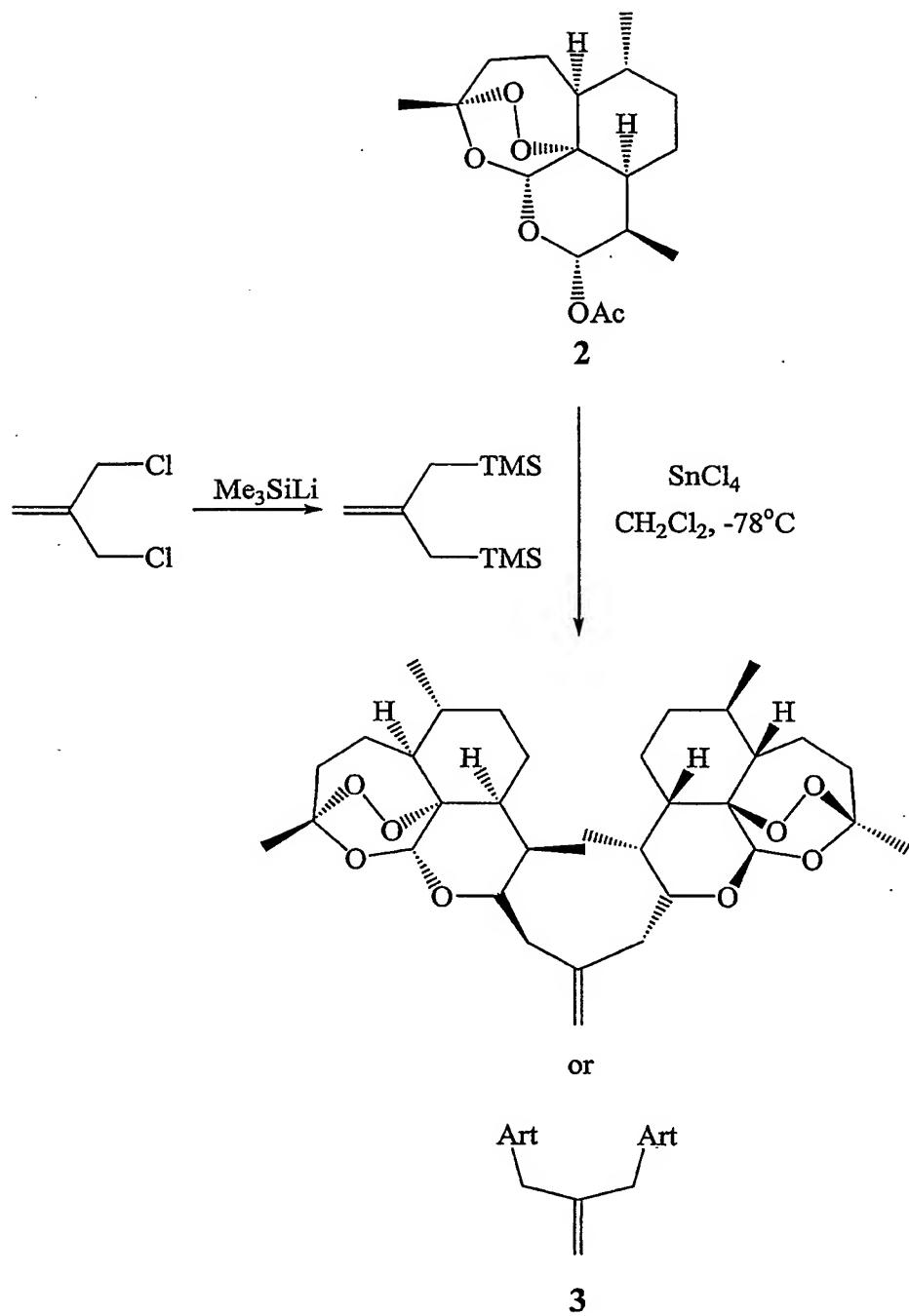


FIGURE 2

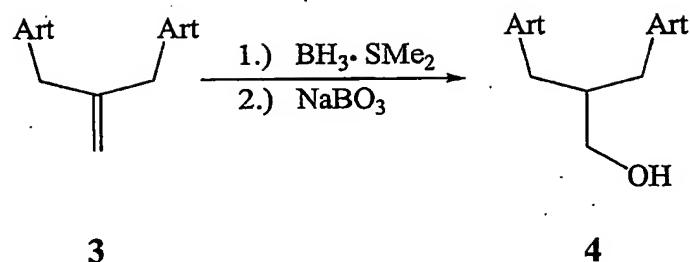


FIGURE 3

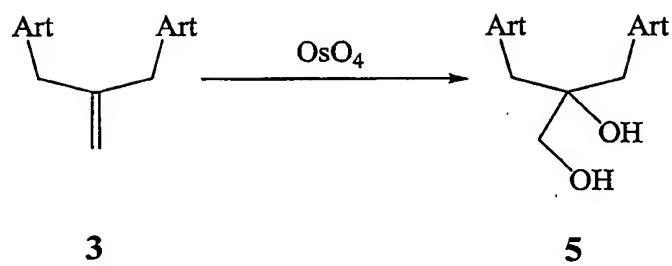
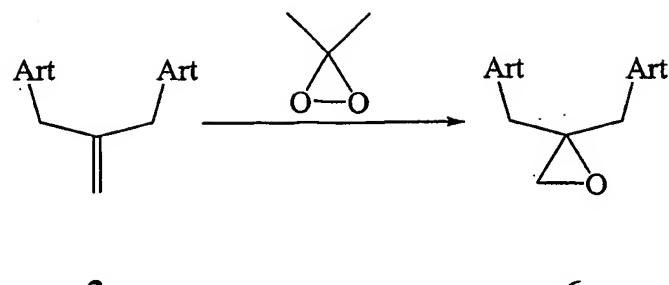
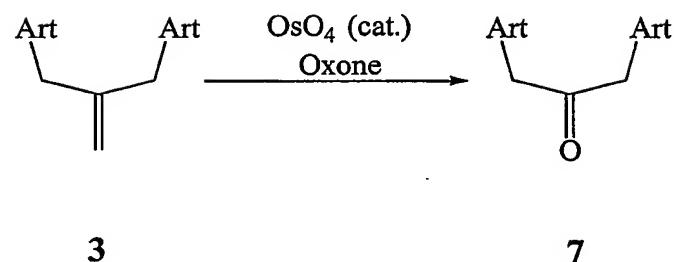
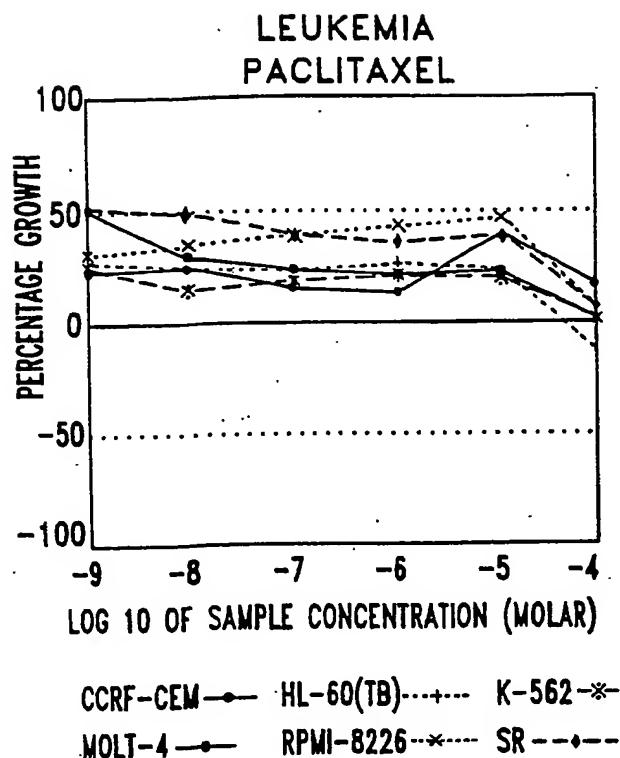
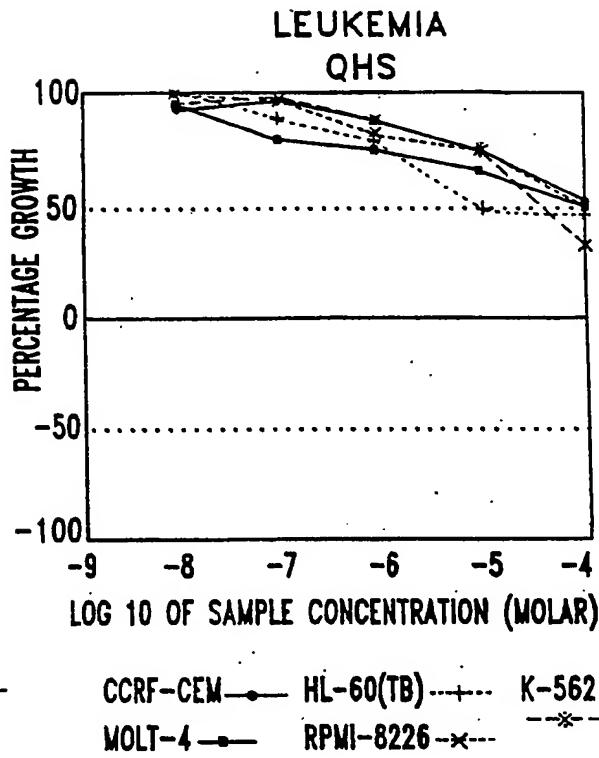
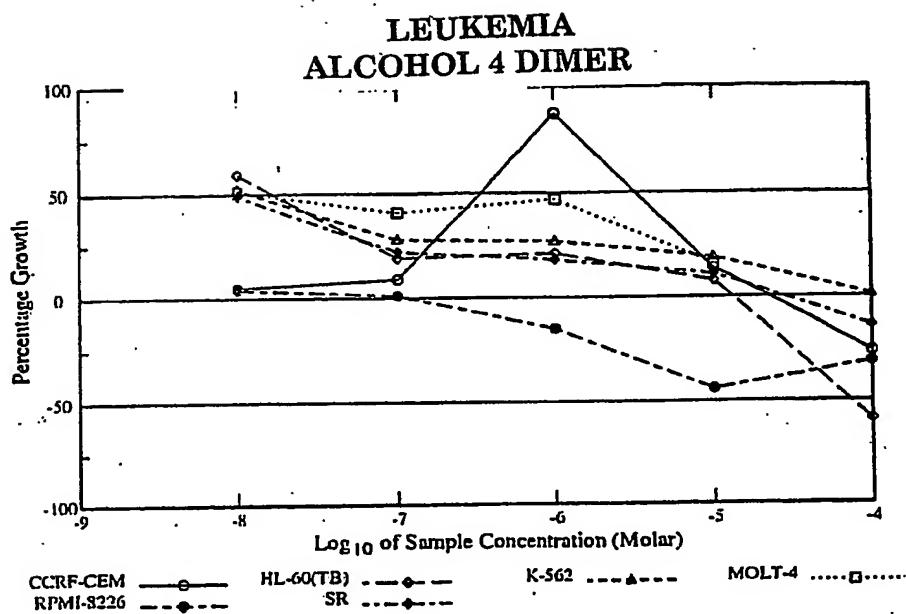
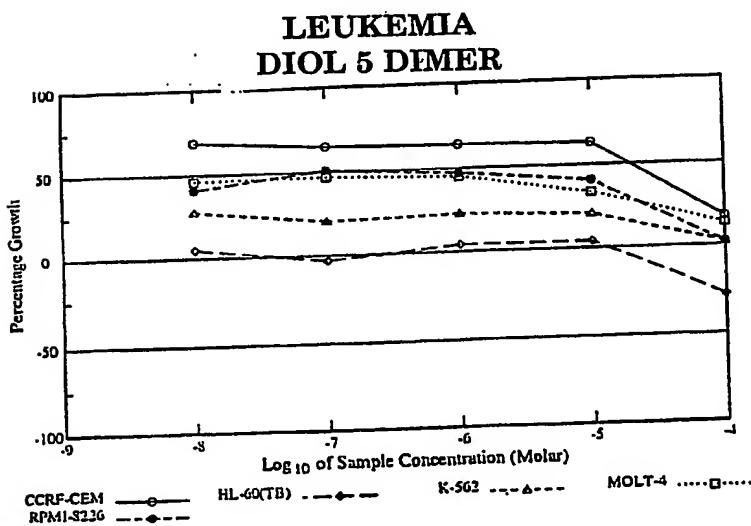


FIGURE 4

**FIGURE 5****FIGURE 6**

**Fig. 7a****Fig. 7b**

**Fig. 7c****Fig. 7d**

**LEUKEMIA
BIS-ARTESUNATE OF 8 DIMER**

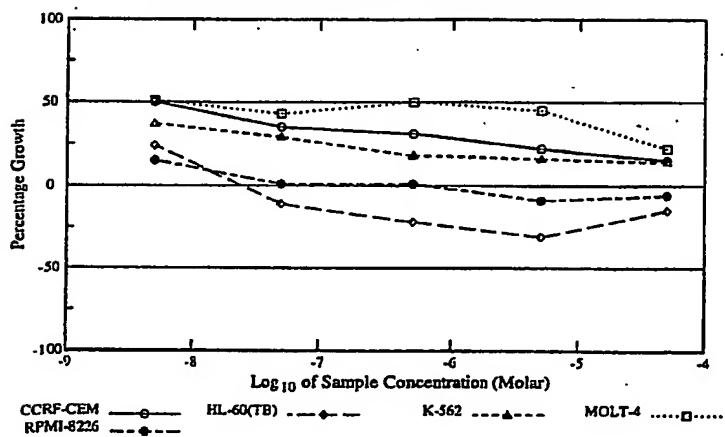


Fig. 7e

**LEUKEMIA
SUCCINATE ESTER 9 DIMER**

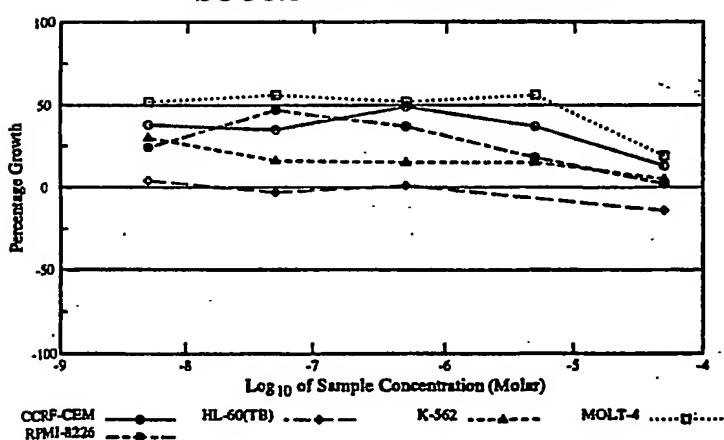


Fig. 7f

LEUKEMIA
BENZOIC ACID 10C DIMER

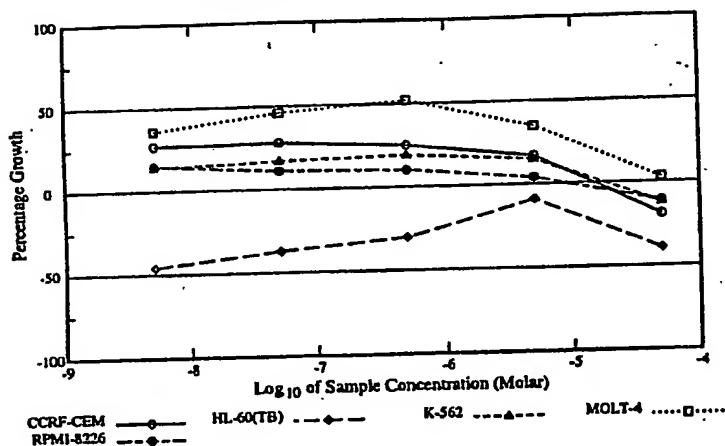


Fig. 7g

LEUKEMIA
DIMER 11B

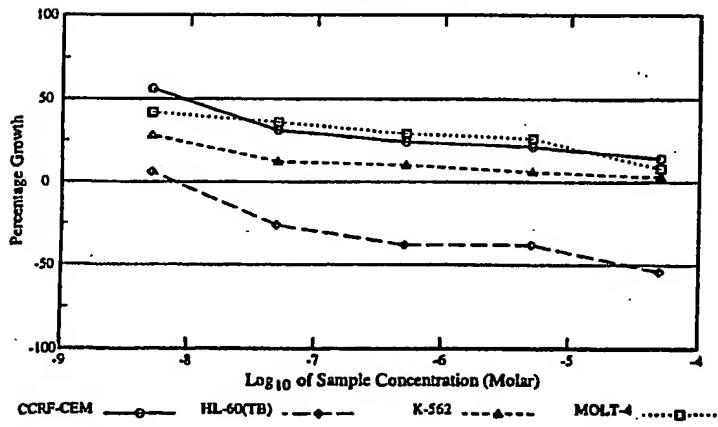


Fig. 7h

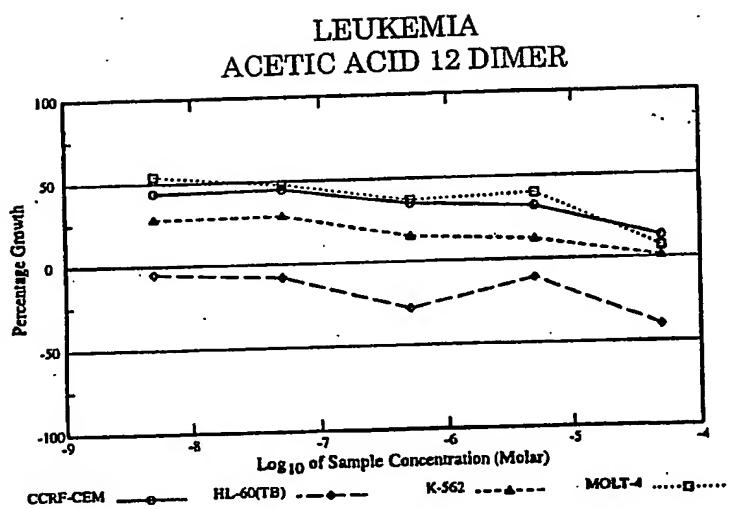
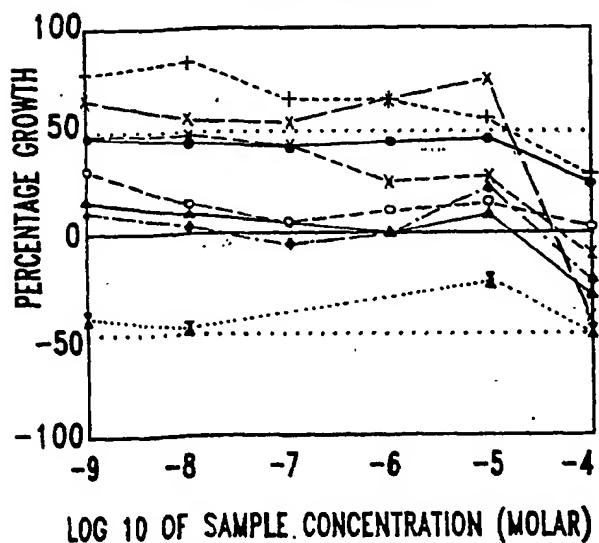


Fig. 7i

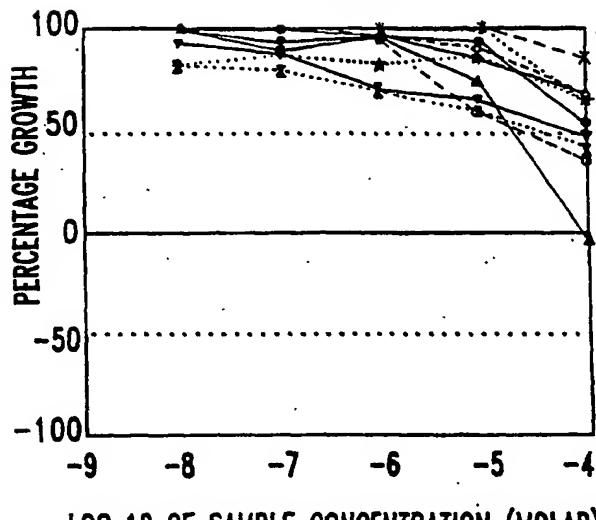
NON-SMALL CELL LUNG CANCER
PACLITAXEL



LOG 10 OF SAMPLE CONCENTRATION (MOLAR)

A549/ATCC ● EKVX + HOP-62 ★
NCI-H226 ✖ NCI-H23 ◆ NCI-H460 ▲
NCI-H522 ✎ NCI-H322M ○ HOP-18 ☒
NCI-H322M ○ LXFL-529 ▬
NCI-H226 ★

NON-SMALL CELL LUNG CANCER
QHS



LOG 10 OF SAMPLE CONCENTRATION (MOLAR)

A549/ATCC ● EKVX + HOP-62 ★
NCI-H226 ✖ NCI-H23 ■ NCI-H460 ◆ NCI-H522 ▲
HOP-18 ☒ NCI-H322M ○ LXFL-529 ▬
NCI-H226 ★

Fig 8a

Fig. 8b

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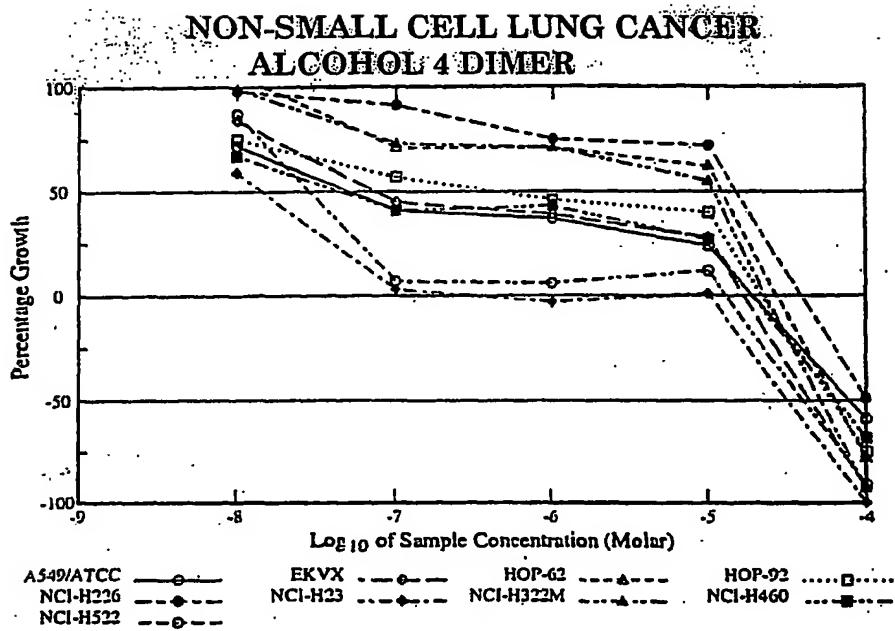


Fig. 8c

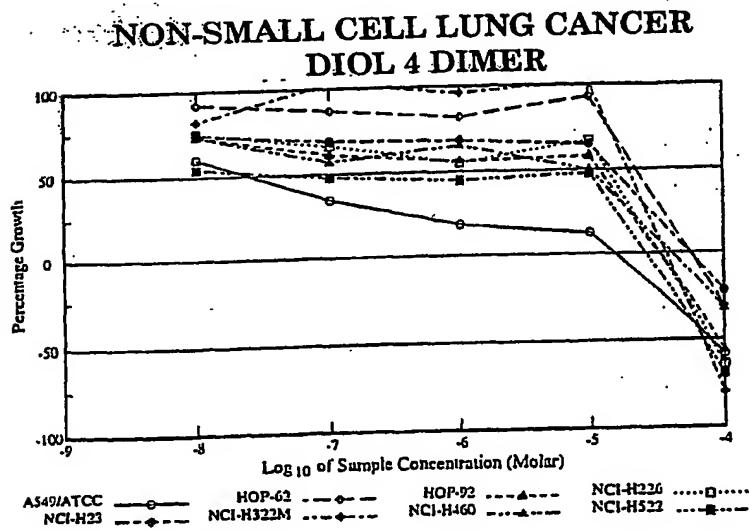


Fig. 8d

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**NON-SMALL CELL LUNG CANCER
BIS-ARTESUNATE OF 8 DIMER**

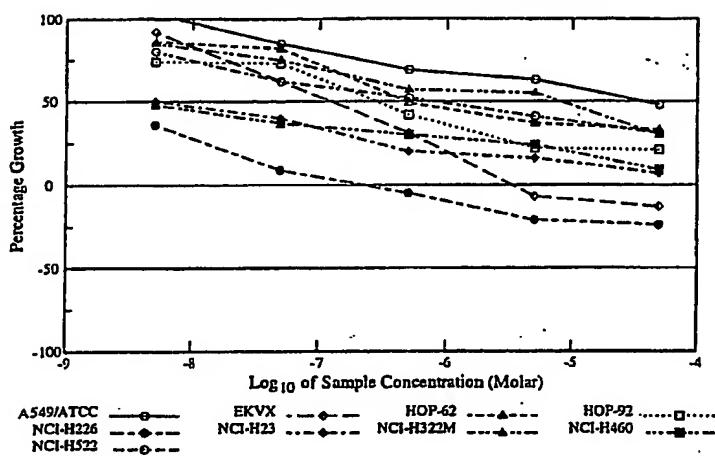


Fig. 8e

**NON-SMALL CELL LUNG CANCER
SUCCINATE ESTER 9 DIMER**

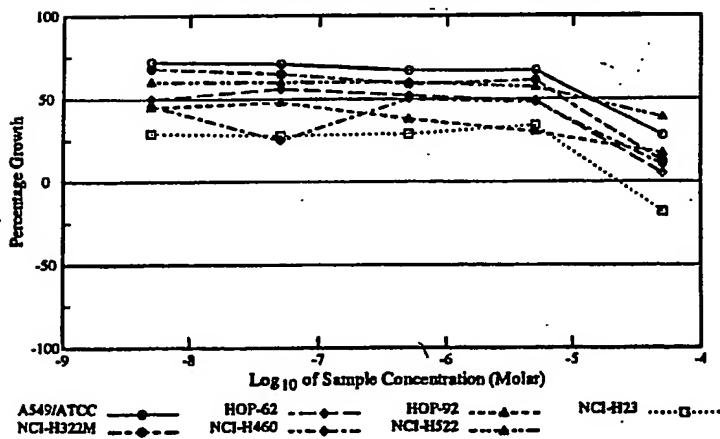


Fig. 8f

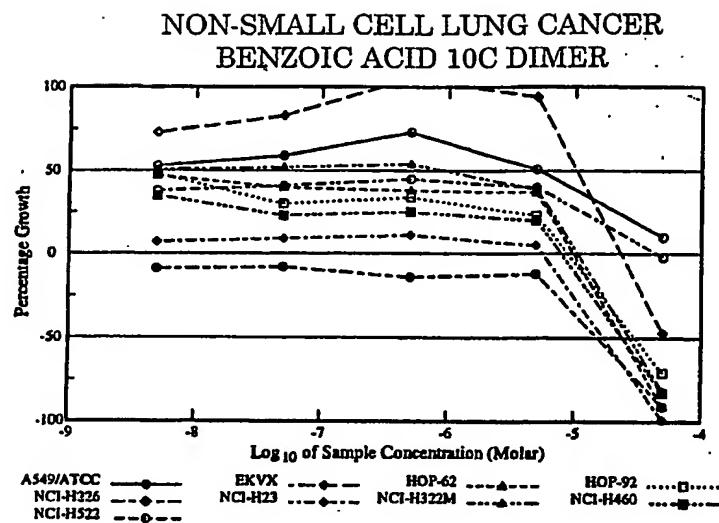


Fig. 8g

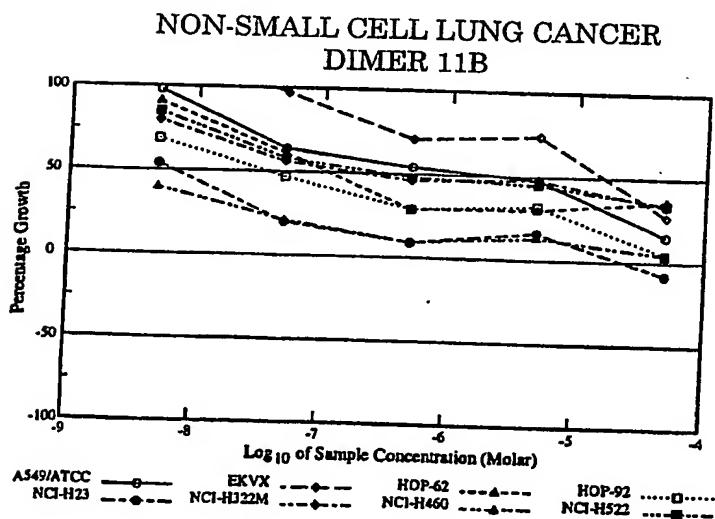


Fig. 8h

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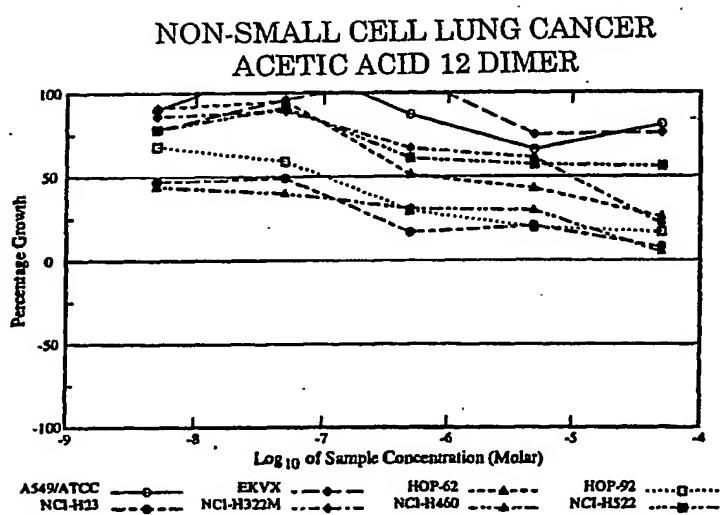


Fig. 8i

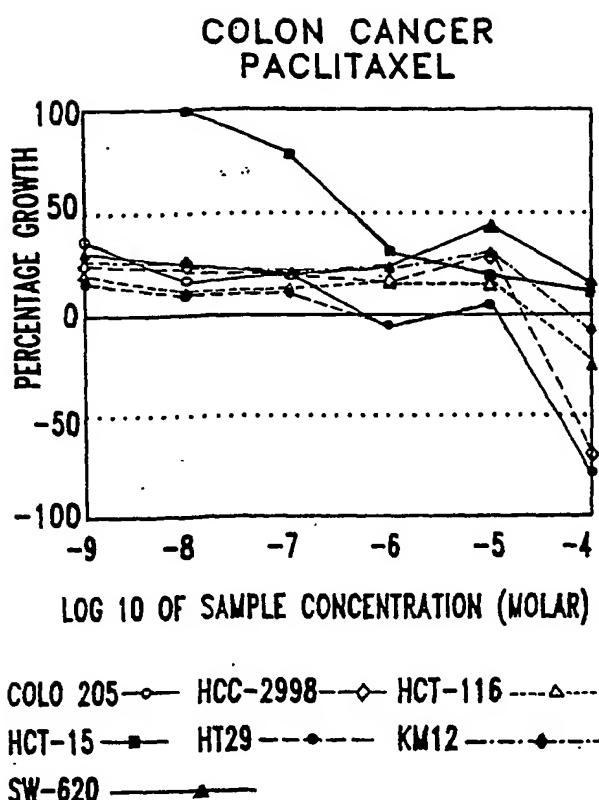


Fig. 9a

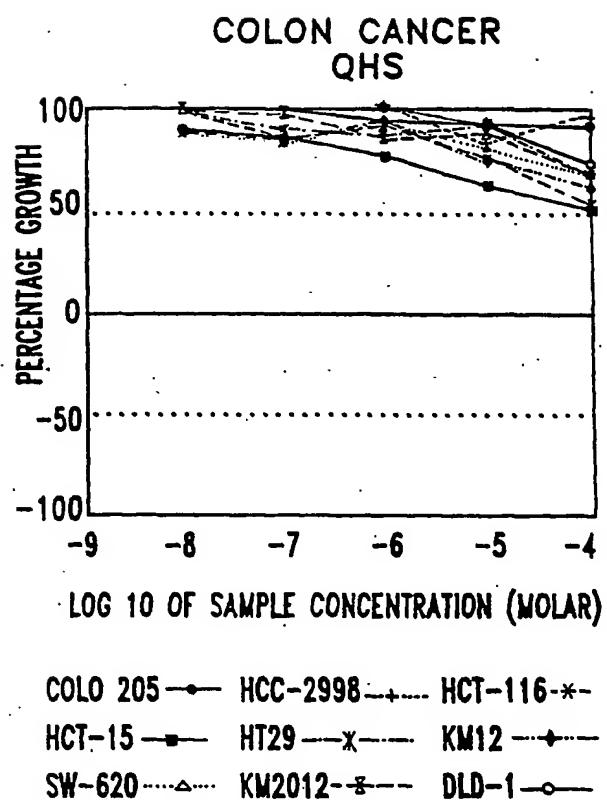


Fig. 9b

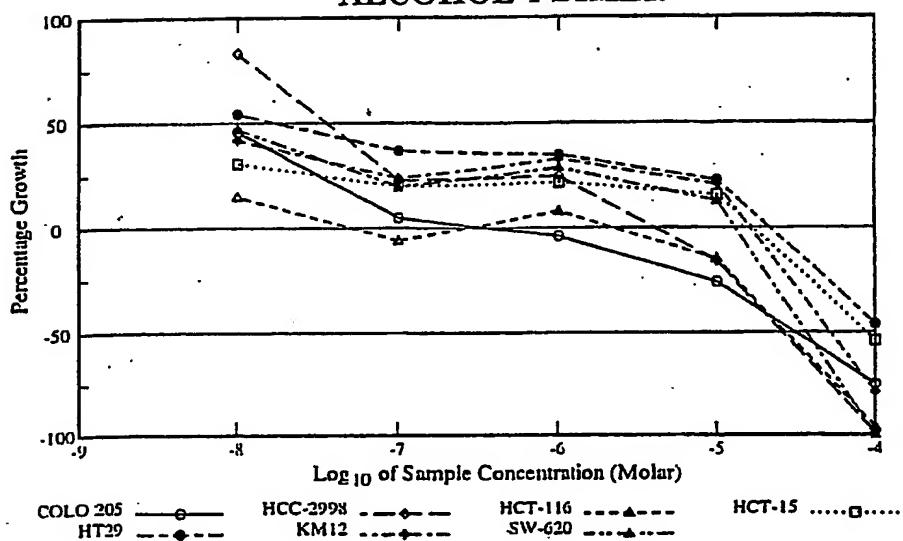
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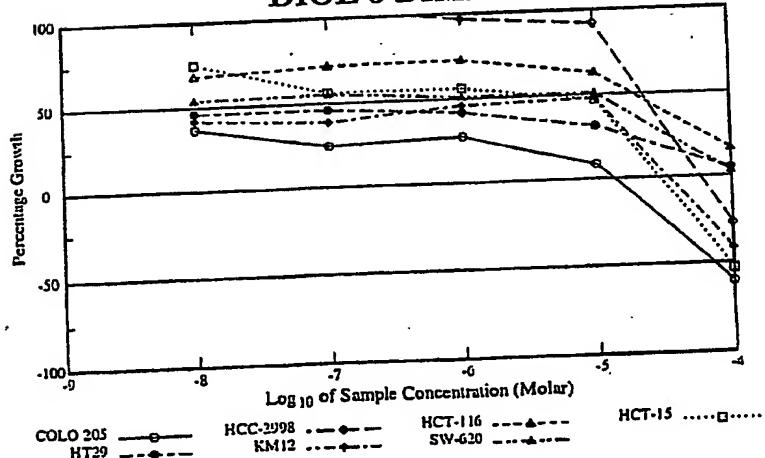
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COLON CANCER
ALCOHOL 4 DIMER

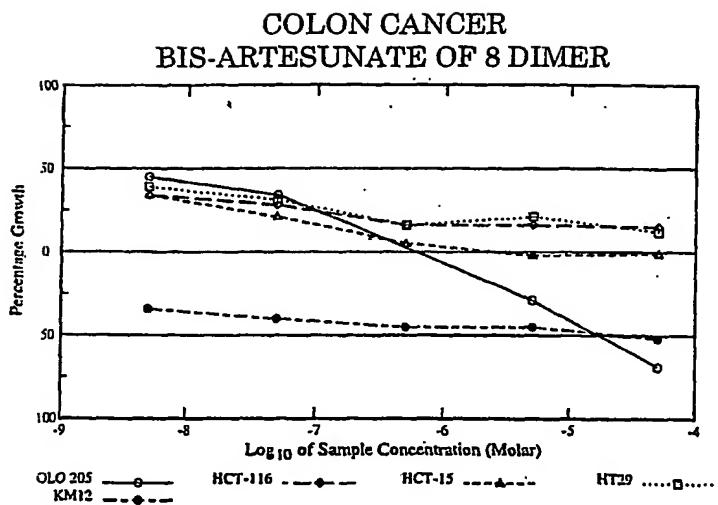
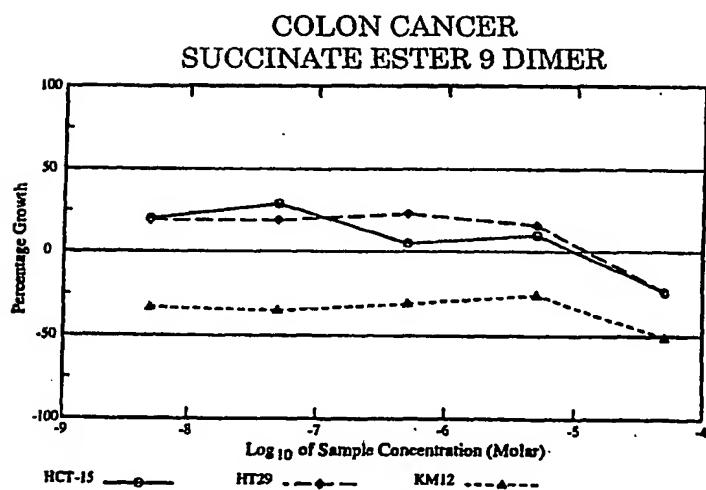


Fib. 9c

COLON CANCER
DIOL 5 DIMER



Fib. 9d

**Fig. 9e****Fig. 9f**

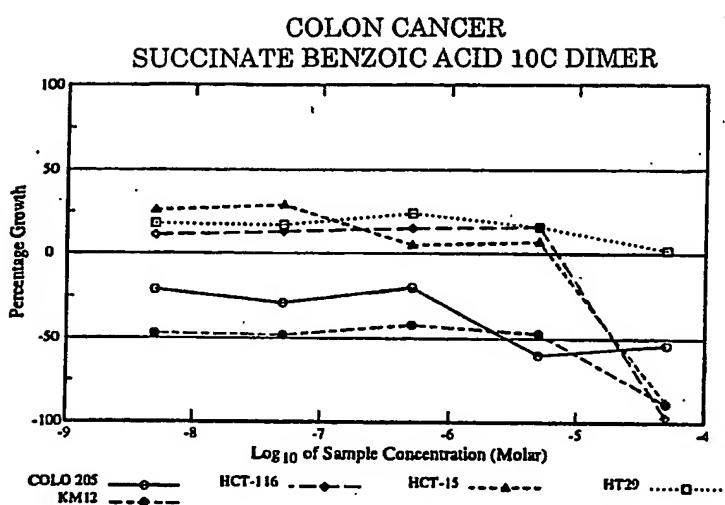


Fig. 9g

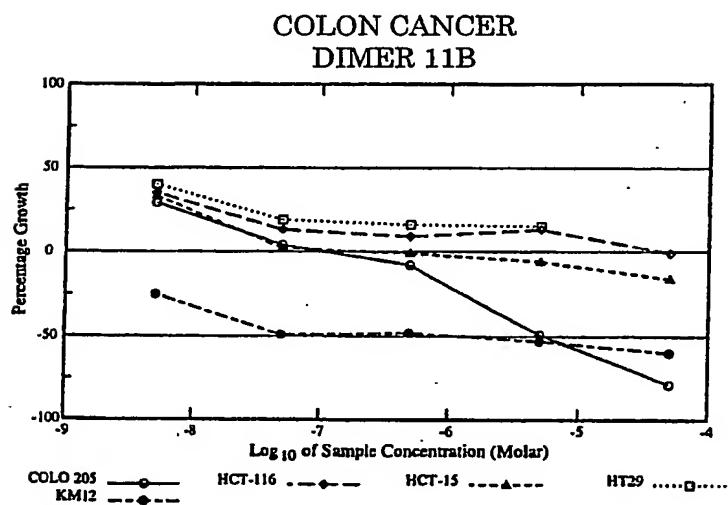


Fig. 9h

COLON CANCER
ACETIC ACID 12 DIMER

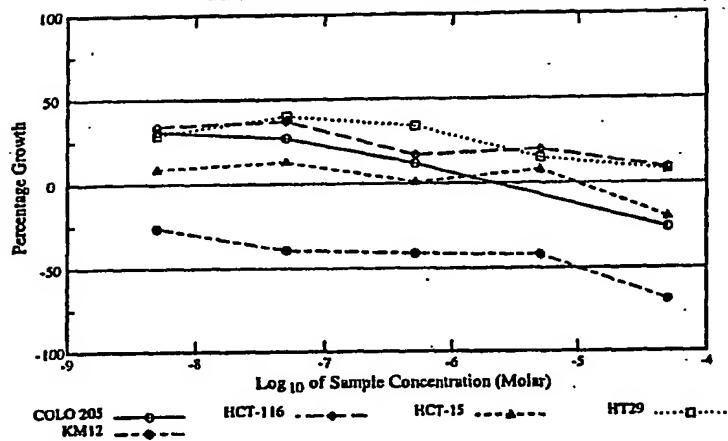
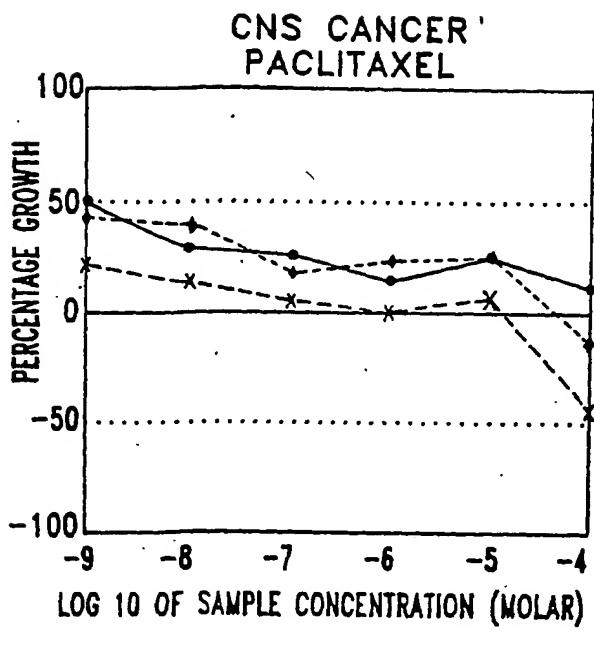
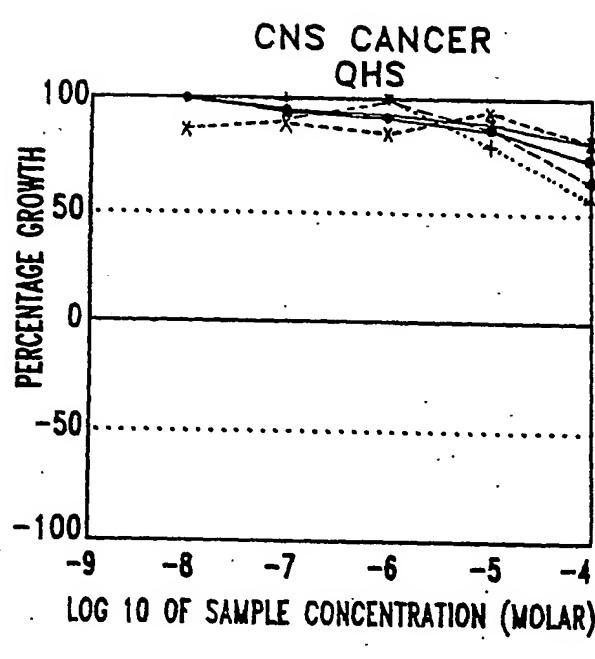


Fig. 9i



SF-539---x--- SNB-19---●--- U251---▲---

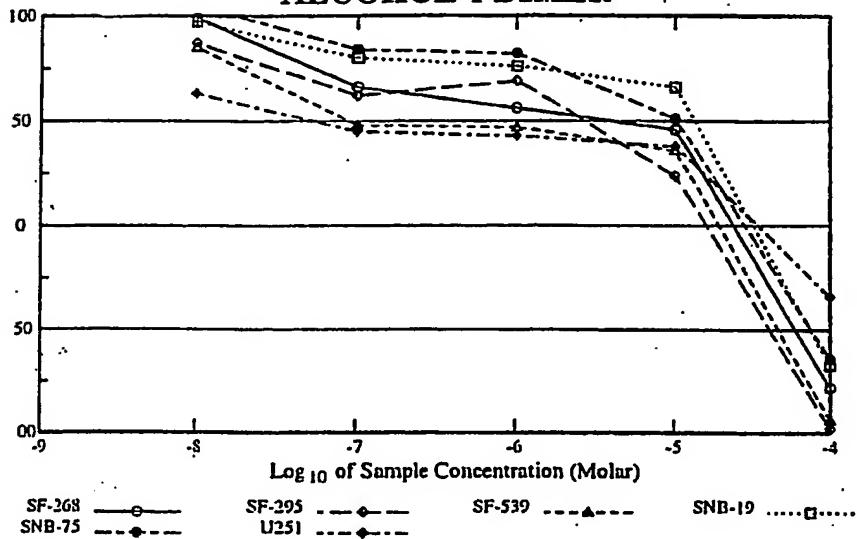


SF-295---+--- SF-539---x--- SNB-19---●---
U251---♦--- SNB-75---▲--- XF 498---x---

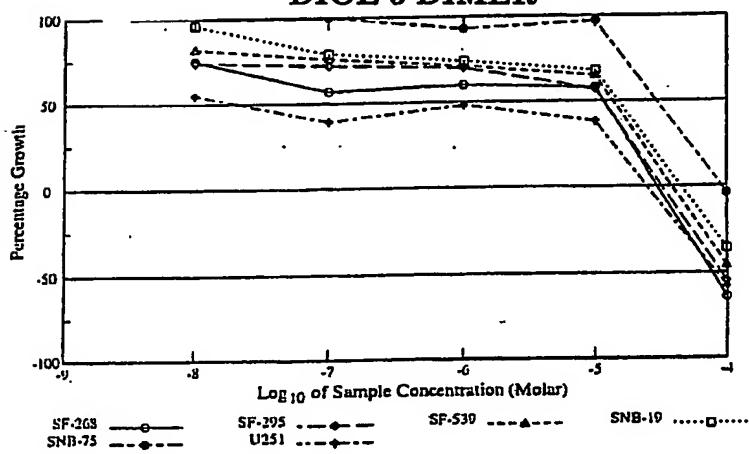
Fig. 10a

Fig. 10b

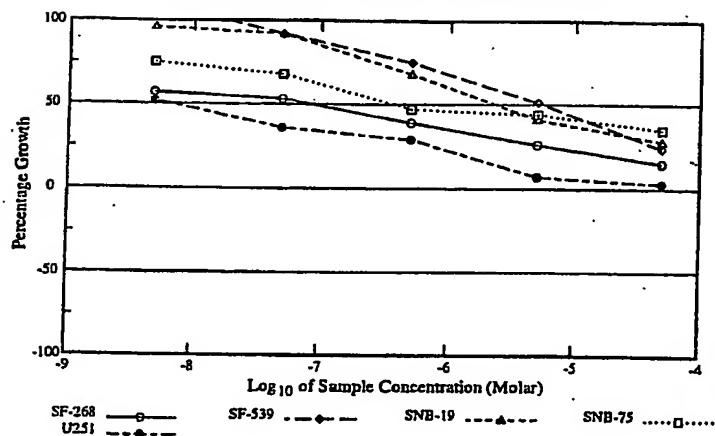
**CNS CANCER
ALCOHOL 4 DIMER**

**Fig. 10c**

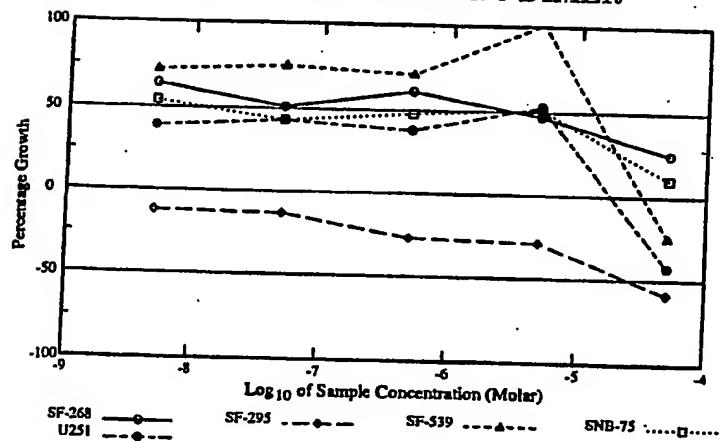
**CNS CANCER
DIOL 5 DIMER**

**Fig. 10d**

**CNS CANCER
BIS-ARTESUNATE OF 8 DIMER**

**Fig. 10e**

**CNS-CANCER
SUCCINATE ESTER 9 DIMER**

**Fig. 10f**

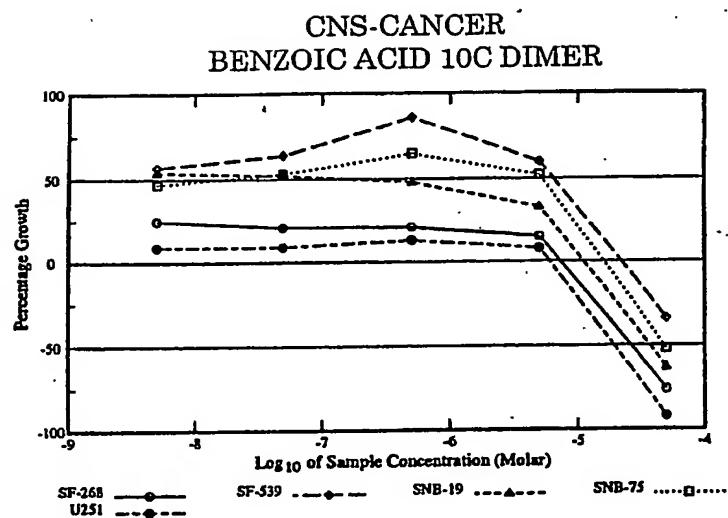


Fig. 10g

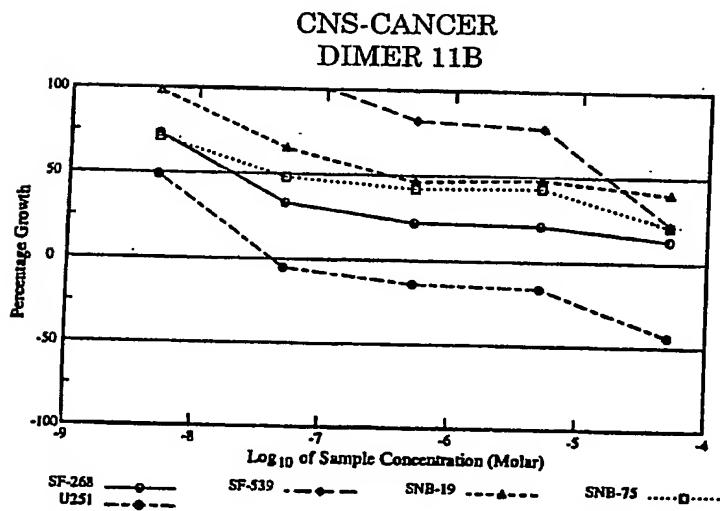


Fig. 10h

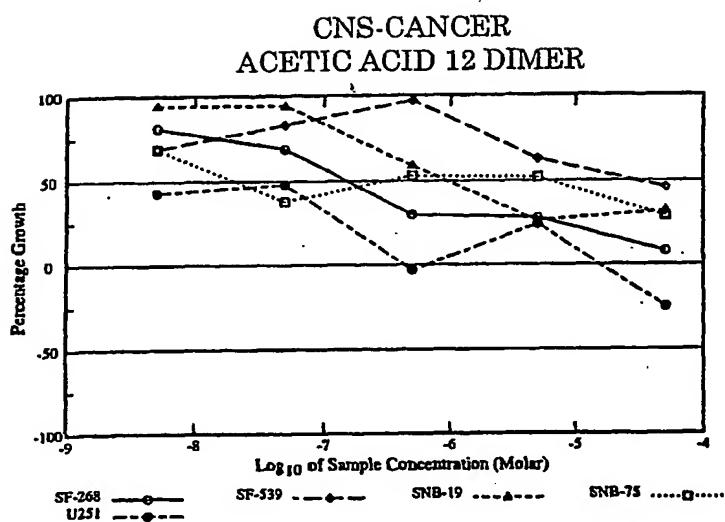
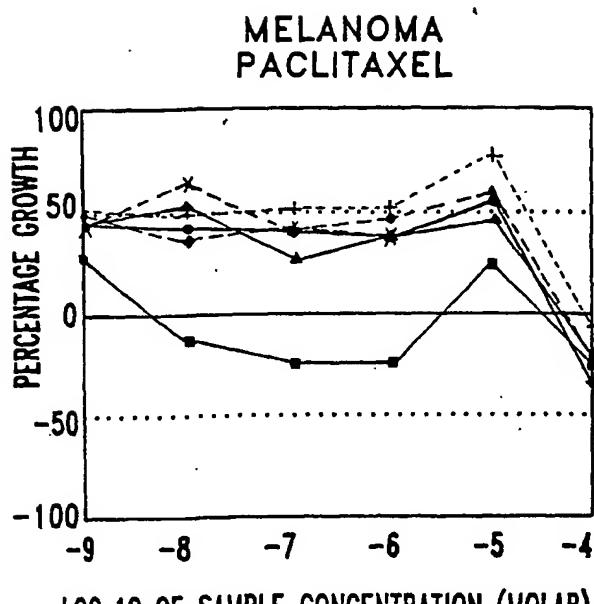
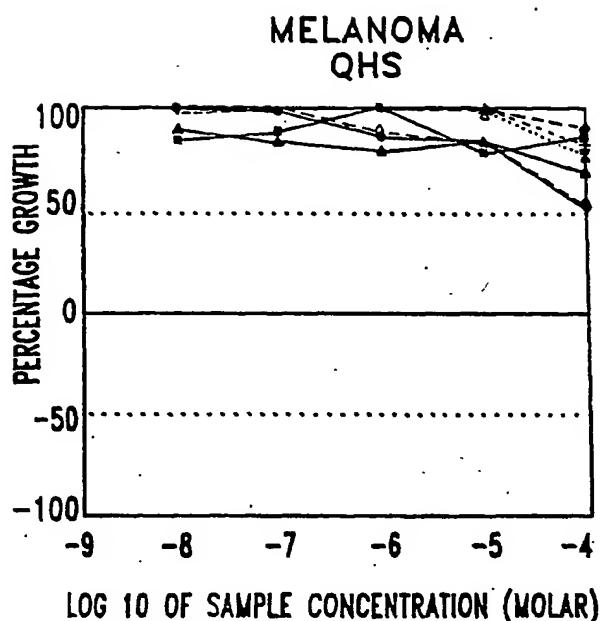


Fig. 10i



LOG 10 OF SAMPLE CONCENTRATION (MOLAR)

LOX IMVI ●—● MALME-3M +---+ M14 *---*
 SK-MEL-2 ■—■ UACC-257 ◆---◆ UACC-62 ▲---▲

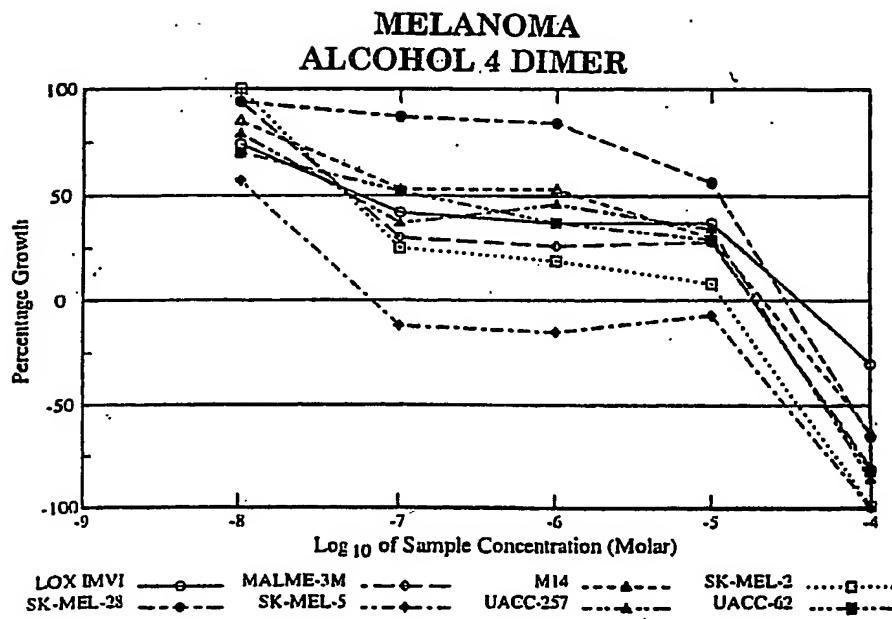
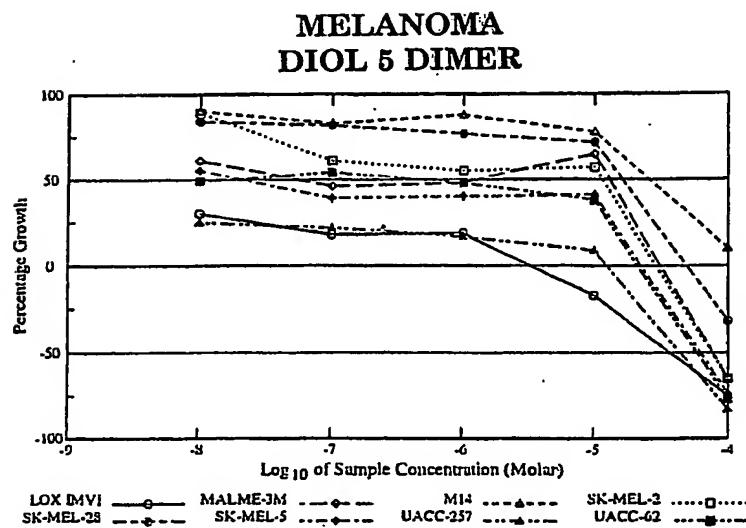


LOG 10 OF SAMPLE CONCENTRATION (MOLAR)

LOX IMVI ●—● MALME-3M +---+ SK-MEL-2 ▲---▲
 SK-MEL-5 ◆---◆ UACC-257 —— UACC-62 x---x
 M19-MEL ——◆—◆

Fig. 11a

Fig. 11b

**Fig. 11c****Fig. 11d**

MELANOMA
BIS-ARTESUNATE OF 8 DIMER

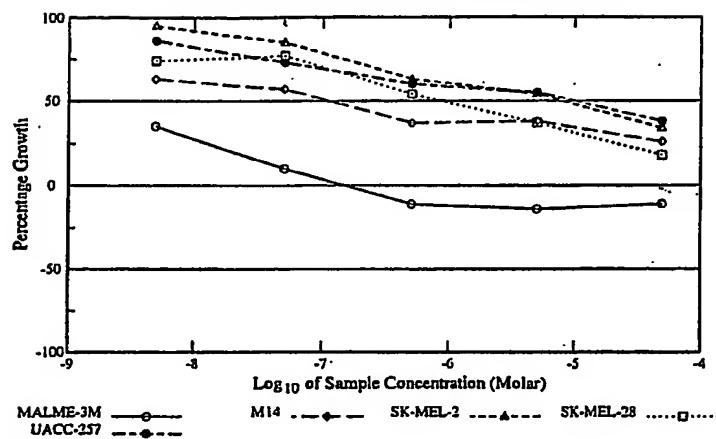


Fig. 11e

MELANOMA
SUCCINATE ESTER 9 DIMER

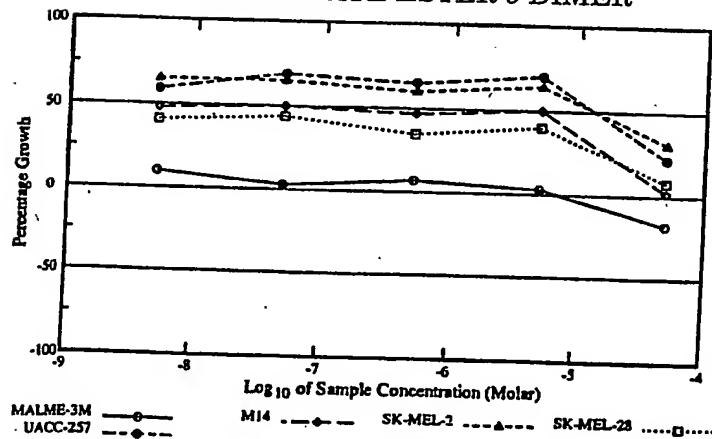
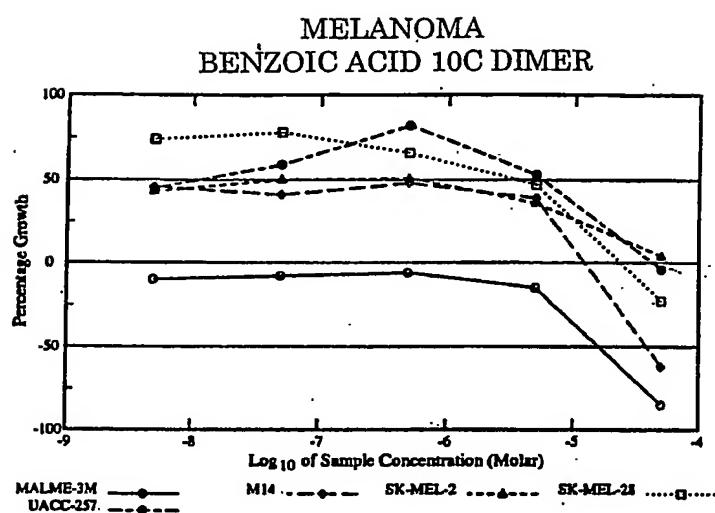
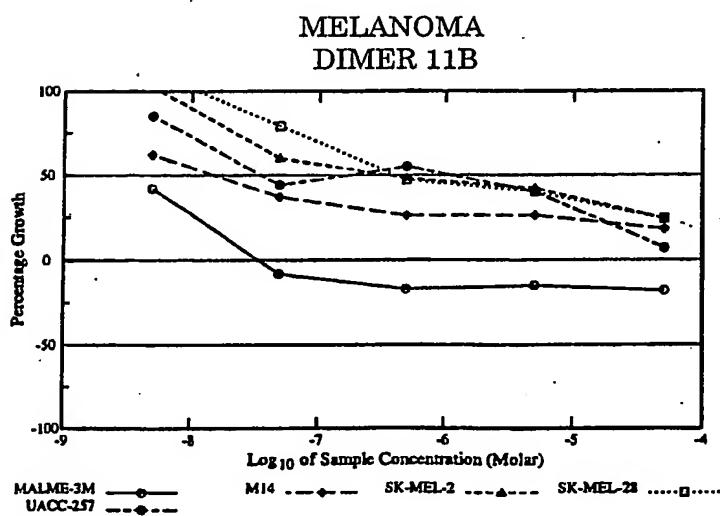


Fig. 11f

**Fig. 11g****Fig. 11h**

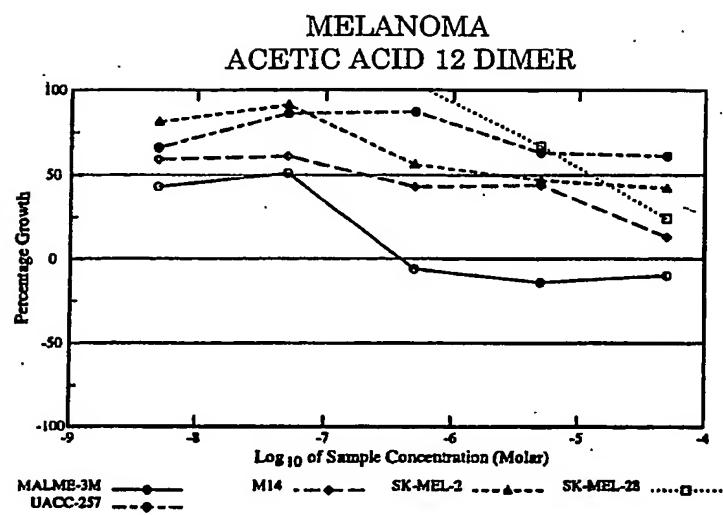
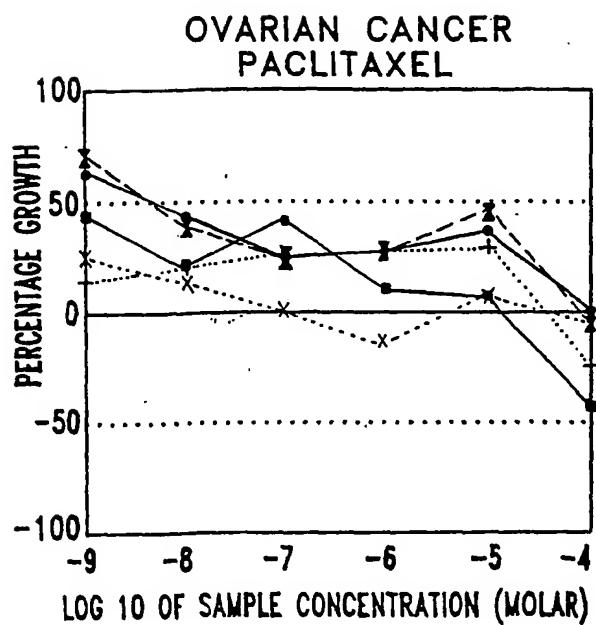
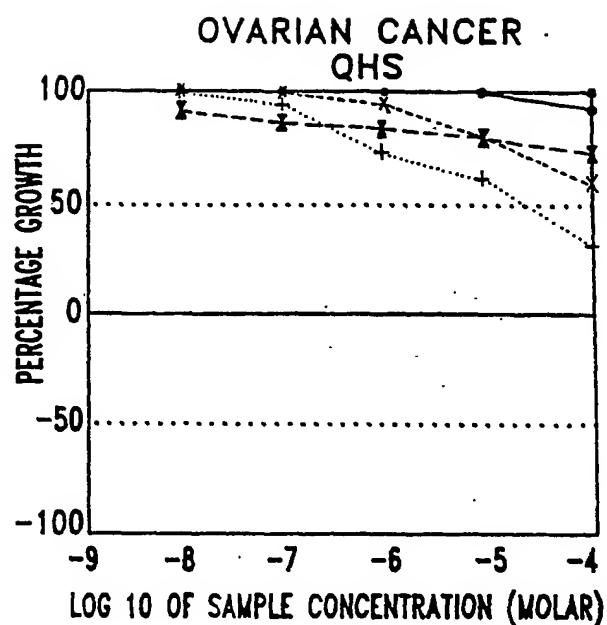


Fig. 11i



IGROV1 —●— OVCAR-3+..... OVCAR-4 -×---
OVCAR-5 ---■--- OVCAR-8 ---*---

Fig. 12a

IGROV1 —●— OVCAR-3+..... OVCAR-4 -×---
OVCAR-5 ---■--- OVCAR-8 ---*---

Fig. 12b

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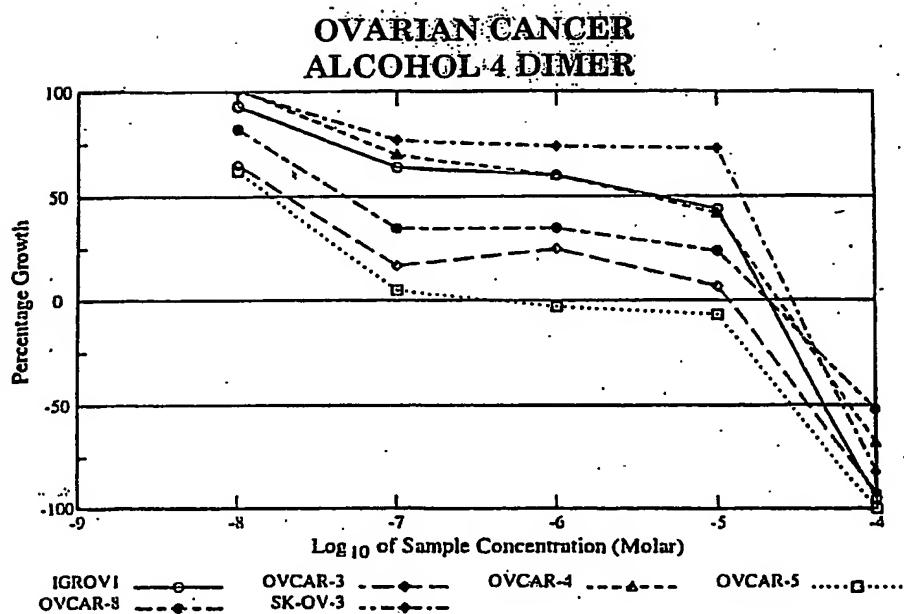


Fig. 12c

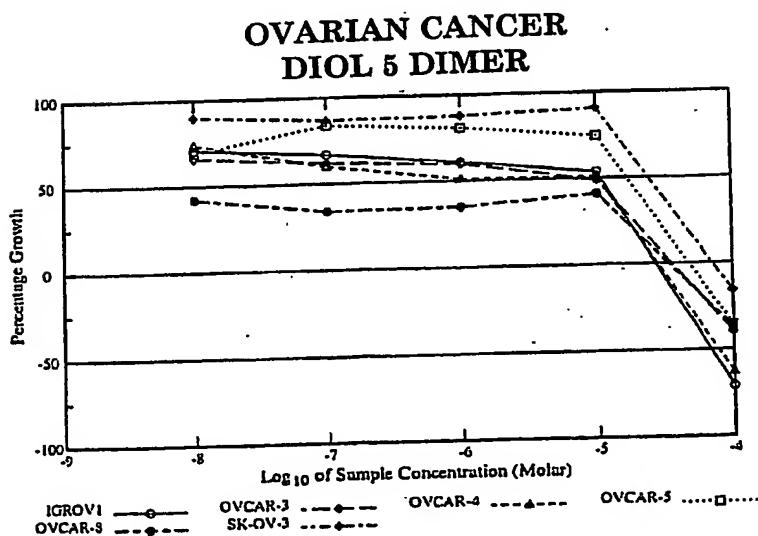
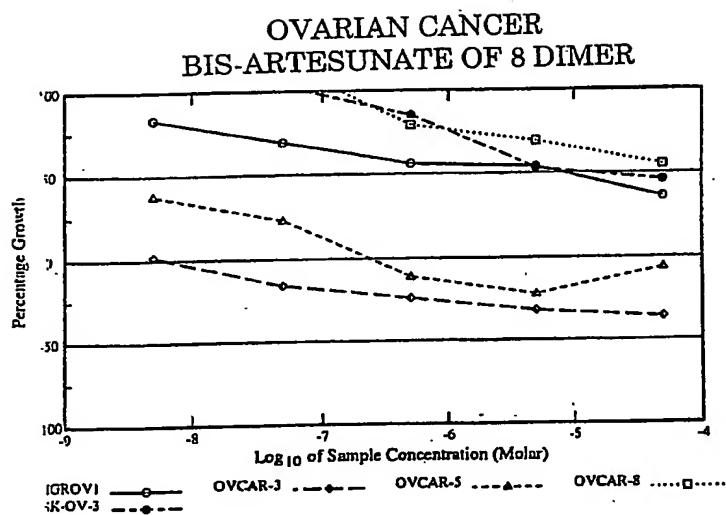
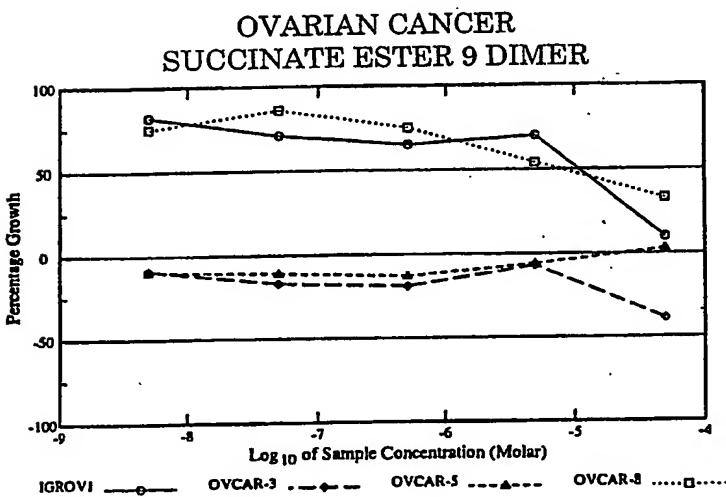
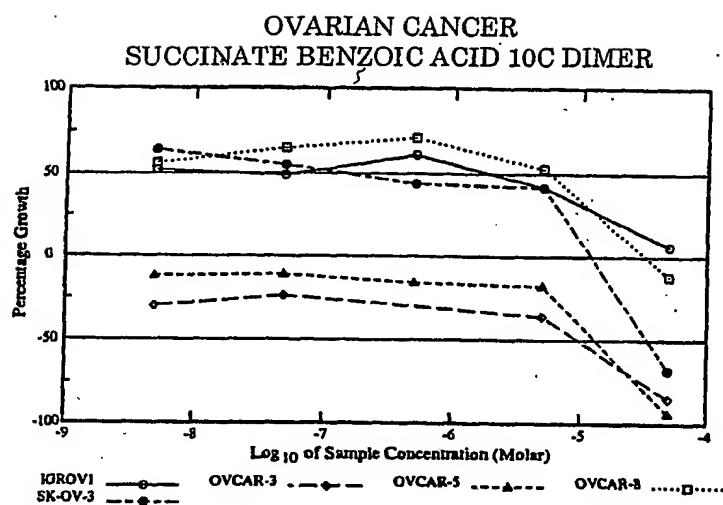
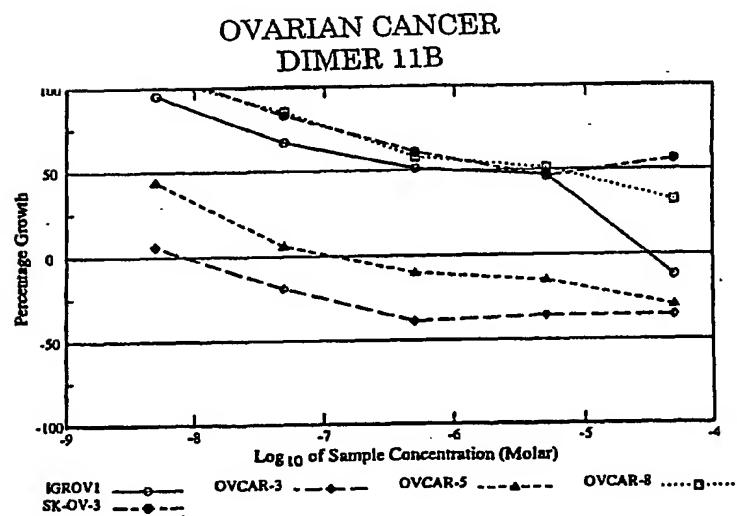


Fig. 12d

**Fig. 12e****Fig. 12f**

**Fig. 12g****Fig. 12h**

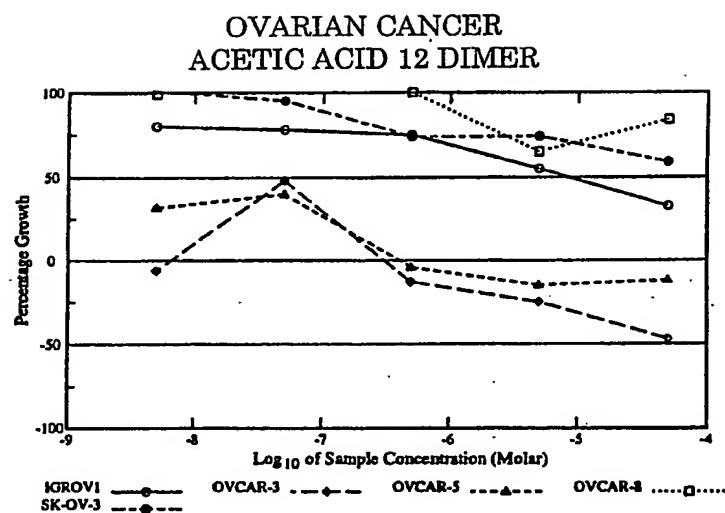
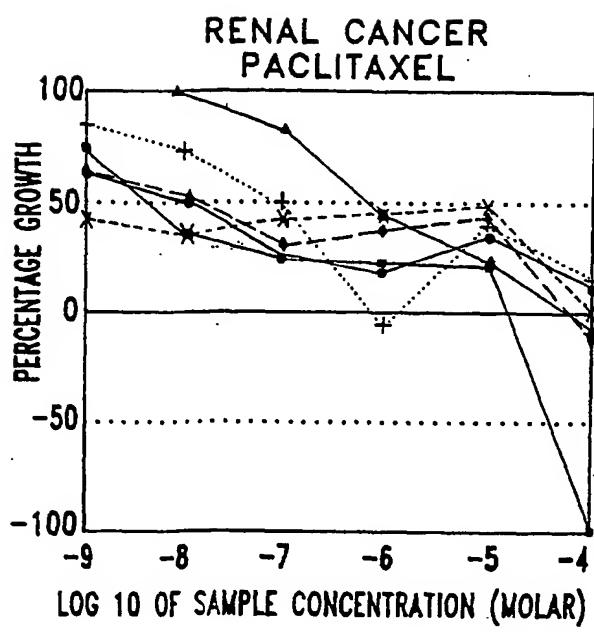
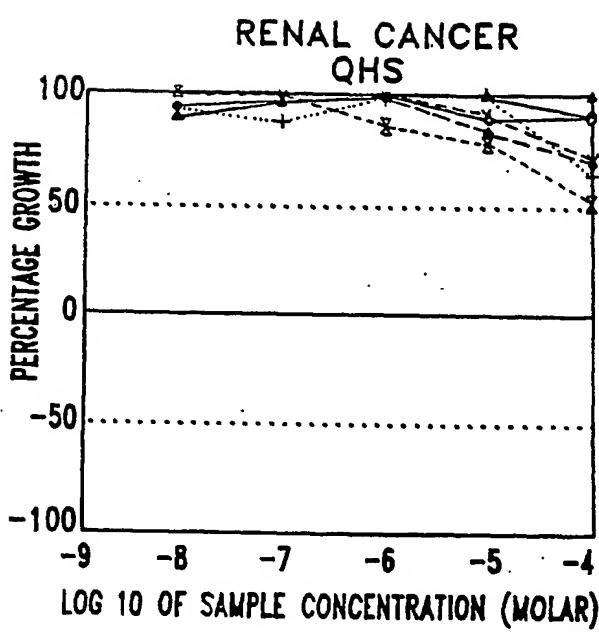


Fig. 12i



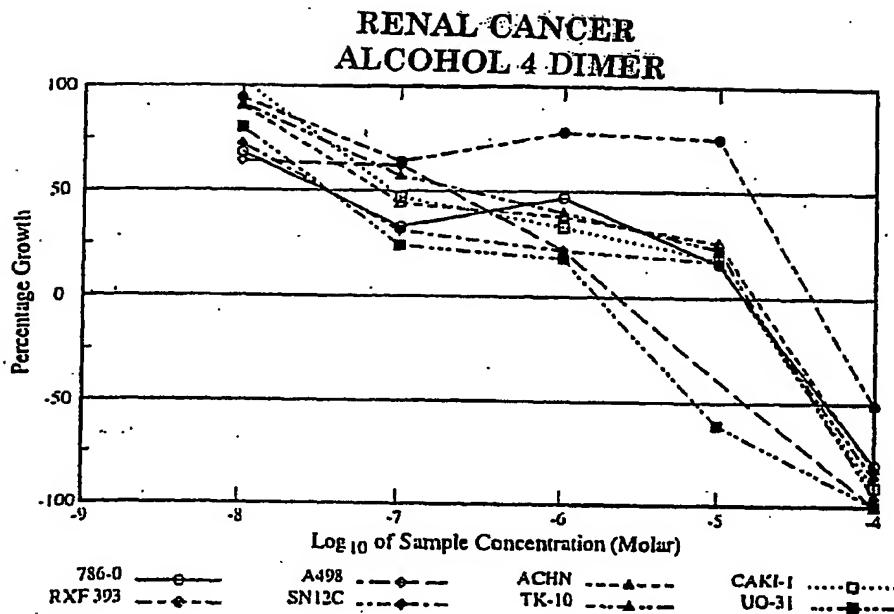
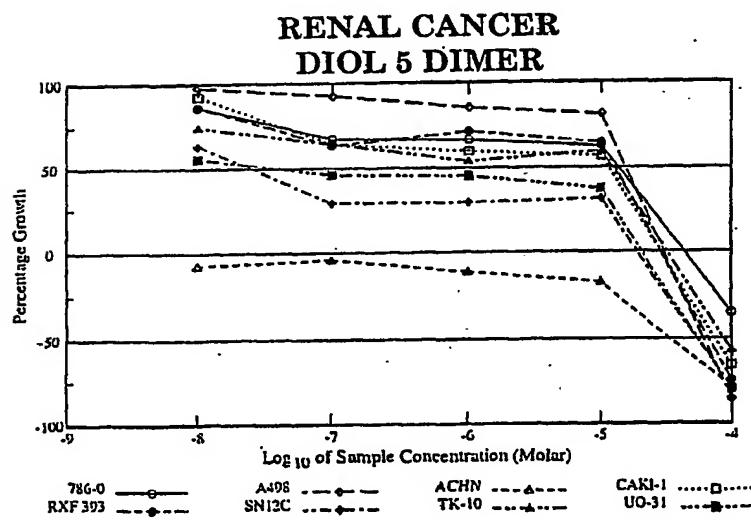
786-0 —●— A498+..... RXF-393 —■—
SN12C ---*--- TK-10 -♦-- UO-31 —▲—

Fig. 13a



786-0 —●— A498+..... ACHN ---x---
SN12C ---◆--- TK-10 —▲— UO-31 ---*---
RXF-631 —○—

Fig. 13b

**Fig. 13c****Fig. 13d**

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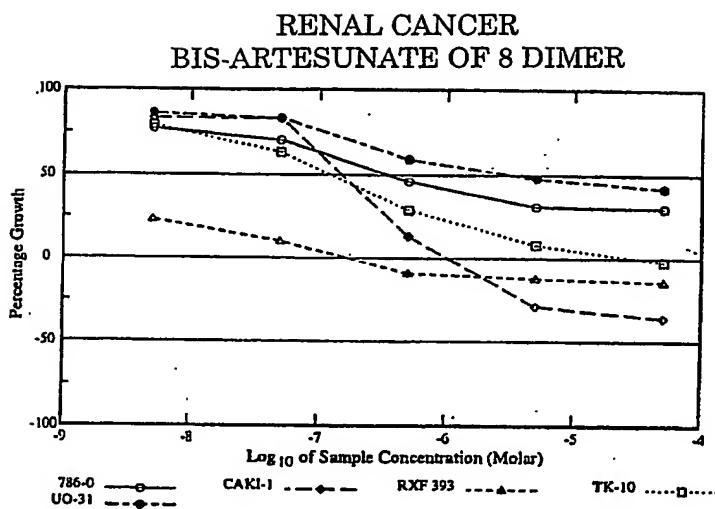


Fig. 13e

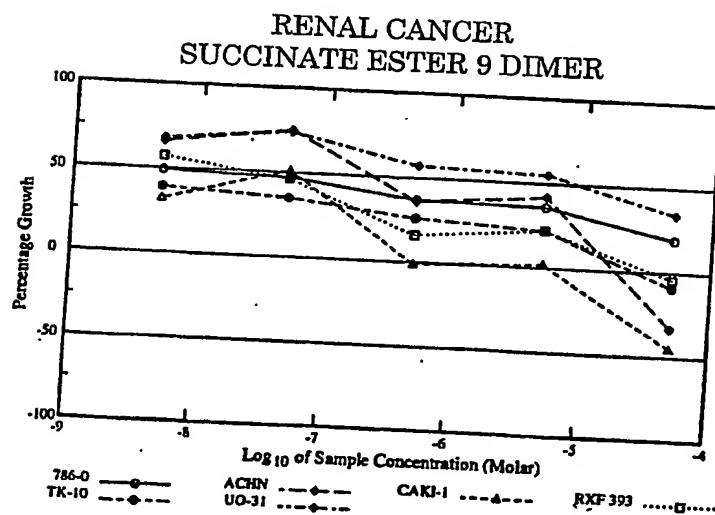


Fig. 13f

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RENAL CANCER
BENZOIC ACID 10C DIMER

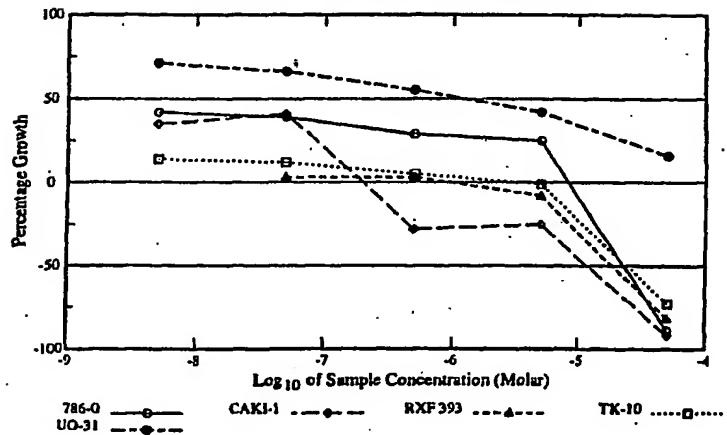


Fig. 13g

RENAL CANCER
DIMER 11B

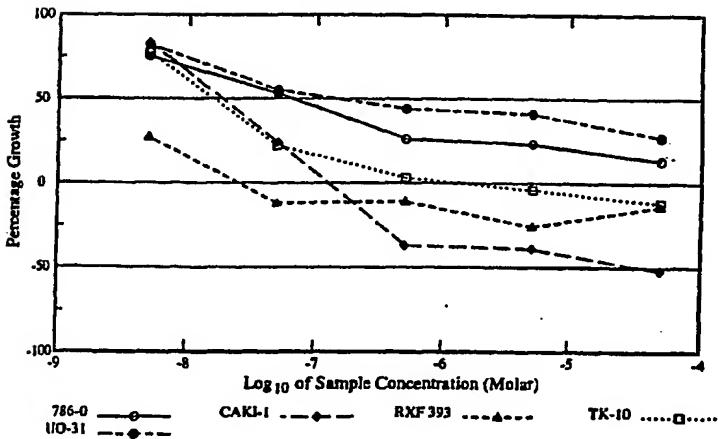


Fig. 13h

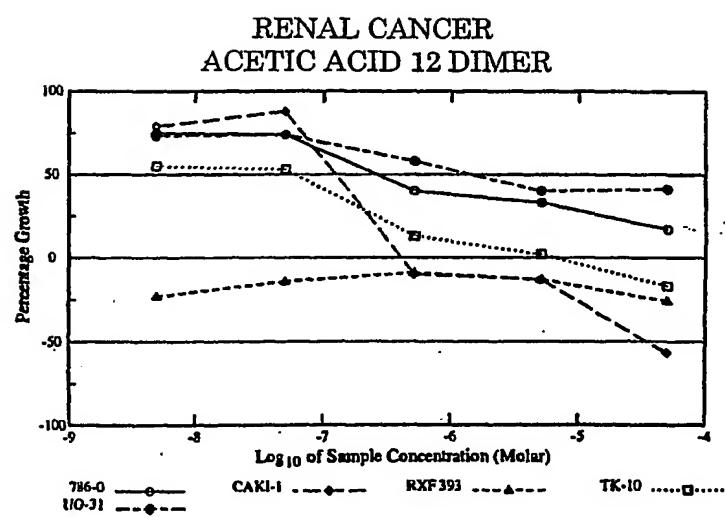


Fig. 13i

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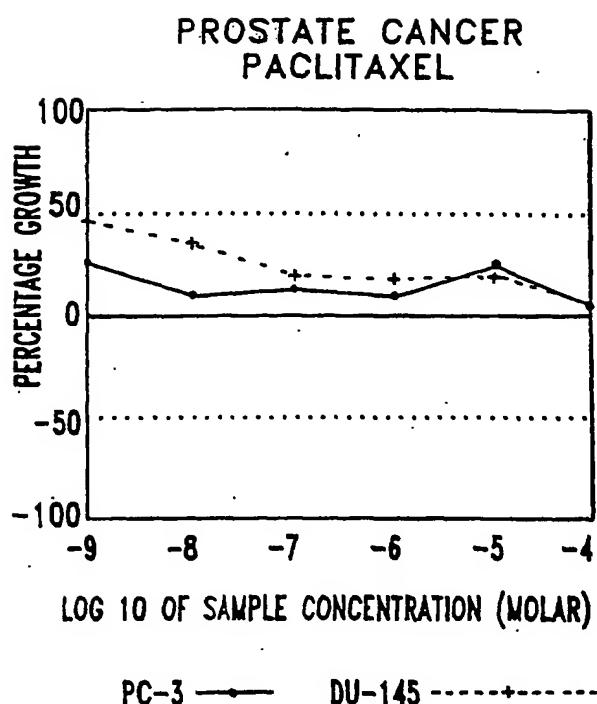


Fig. 14a

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PROSTATE CANCER
ALCOHOL 4 DIMER

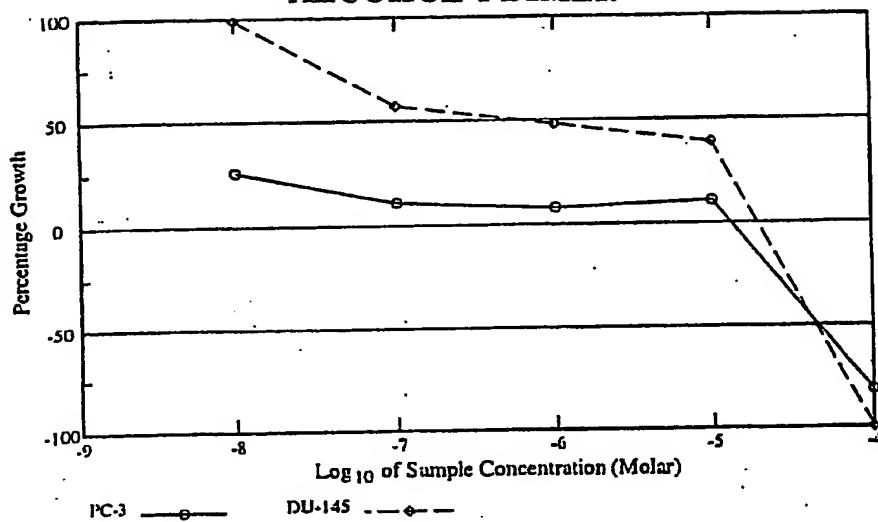


Fig. 14b

PROSTATE CANCER
DIOL 5 DIMER

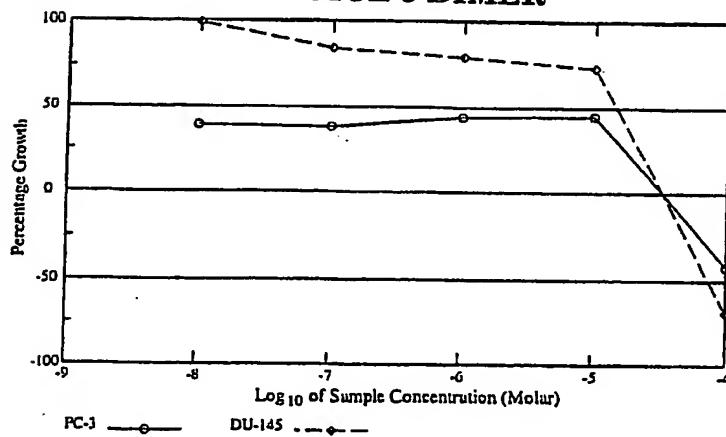


Fig. 14c

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PROSTATE CANCER
BIS-ARTESUNATE OF 8 DIMER

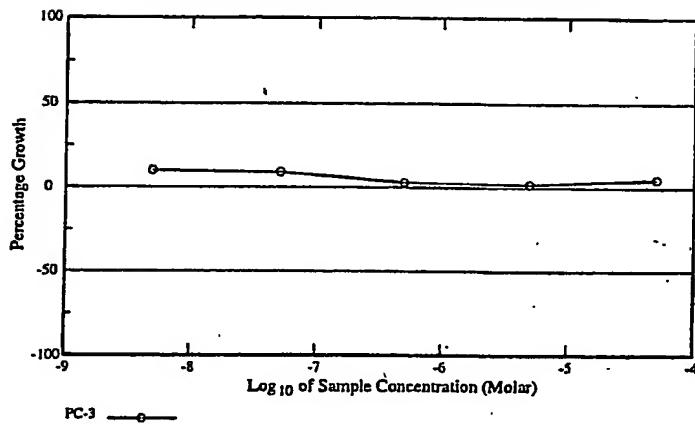


Fig. 14d

PROSTATE CANCER
SUCCINATE ESTER 9 DIMER

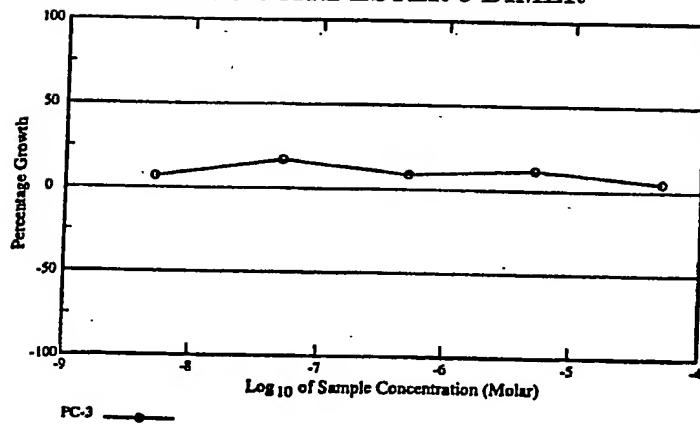


Fig. 14e

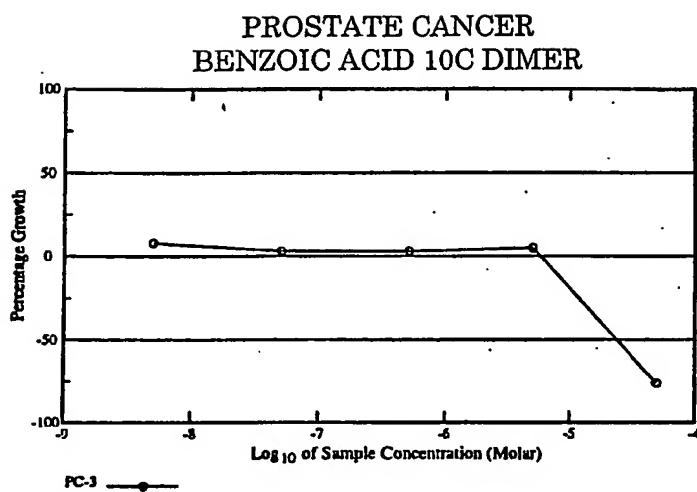


Fig. 14f

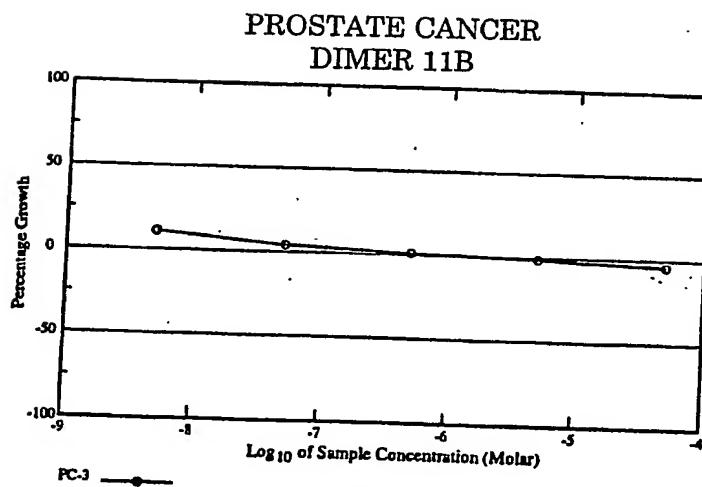


Fig. 14g

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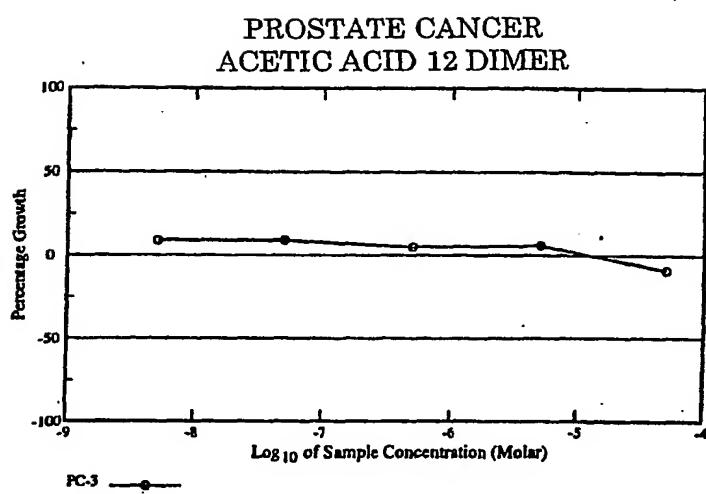


Fig. 14h

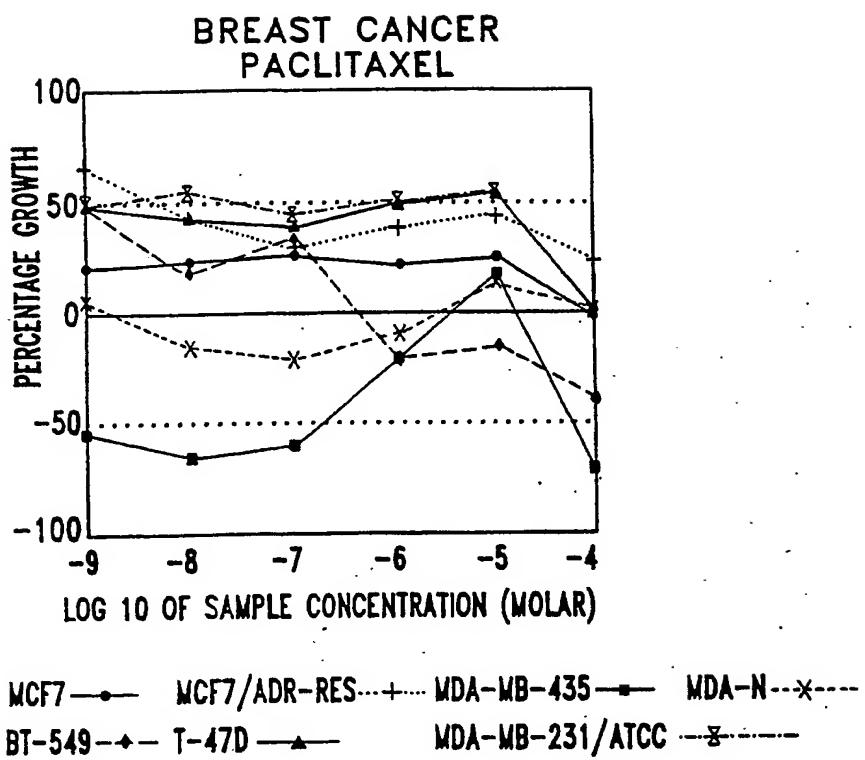


Fig. 15a

**BREAST CANCER
ALCOHOL 4 DIMER**

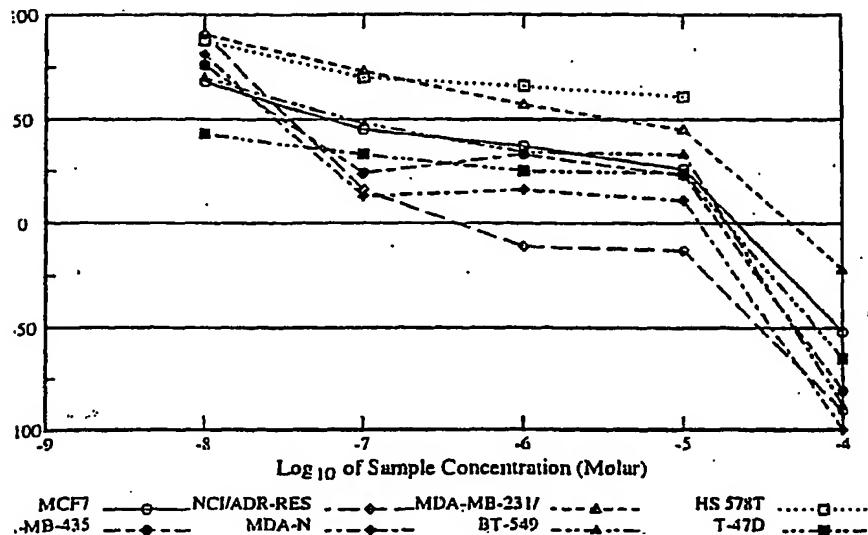


Fig. 15b

**BREAST CANCER
DIOL 5 DIMER**

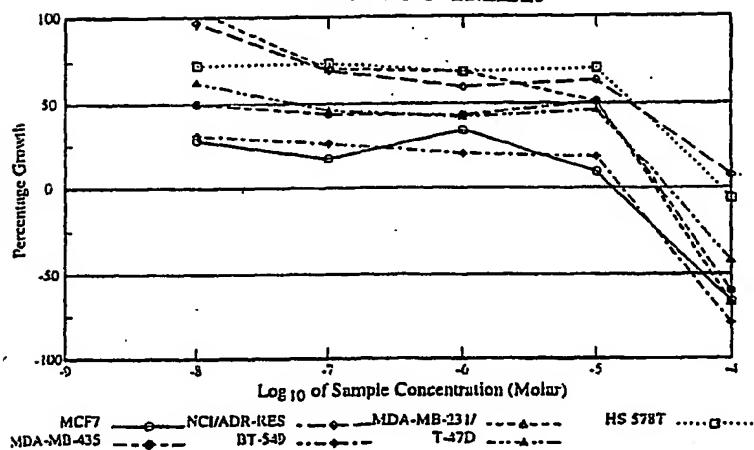
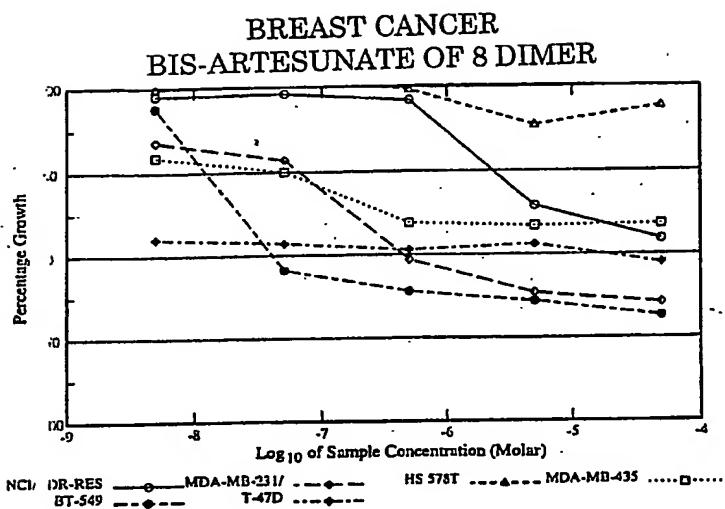
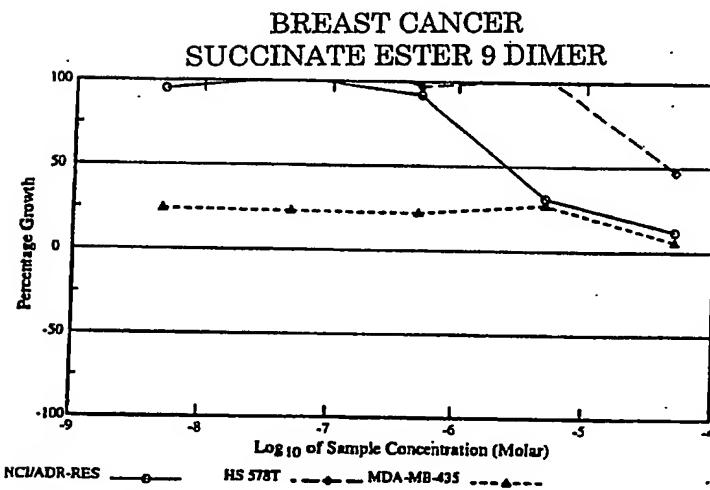
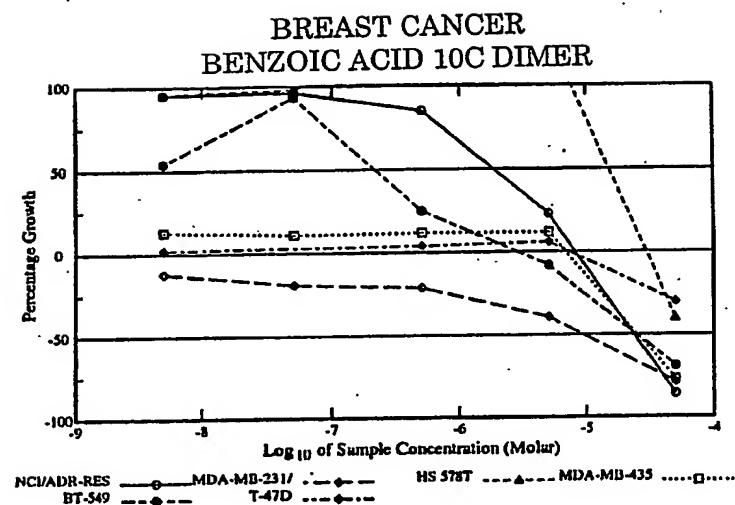
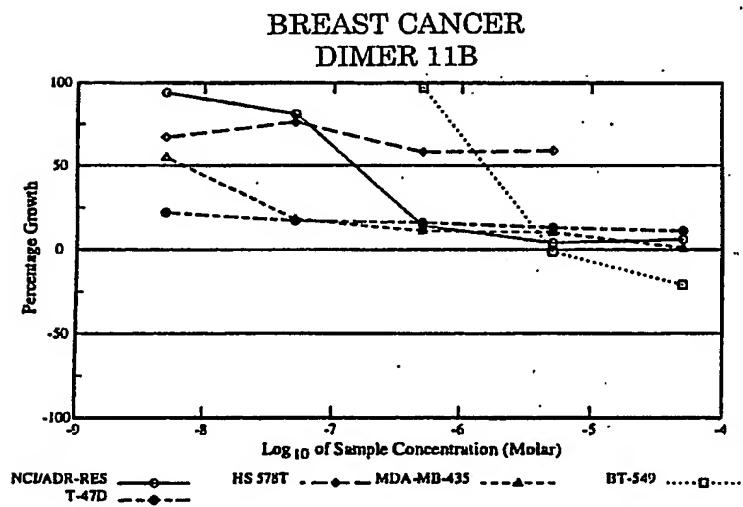


Fig. 15c

**Fig. 15d****Fig. 15e**

**Fig. 15f****Fig. 15g**

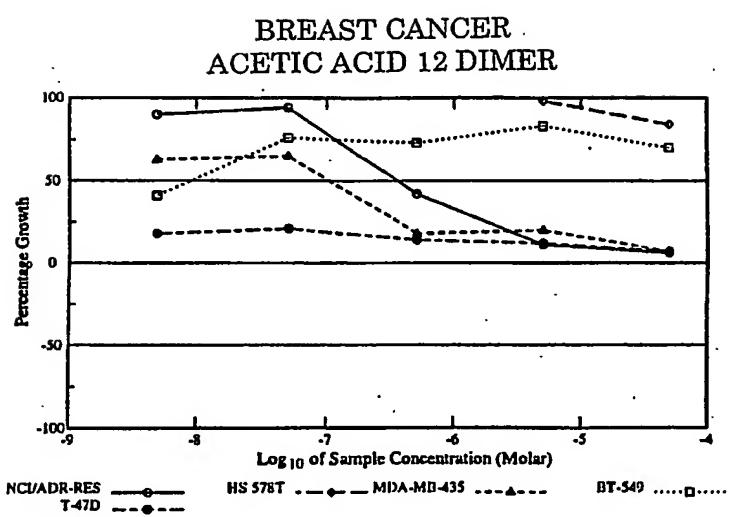
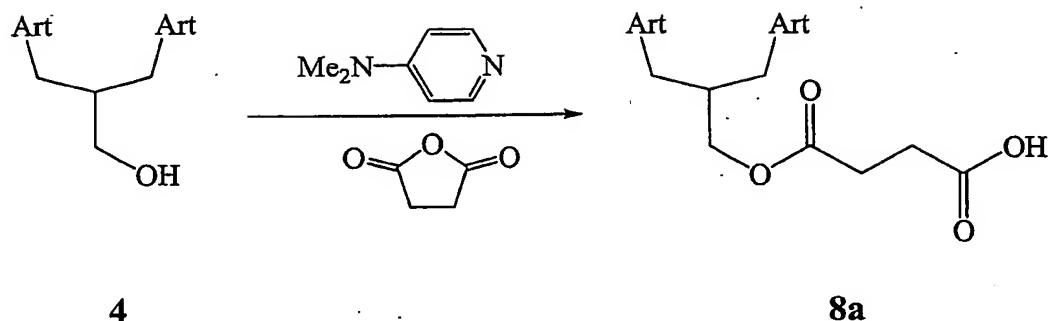


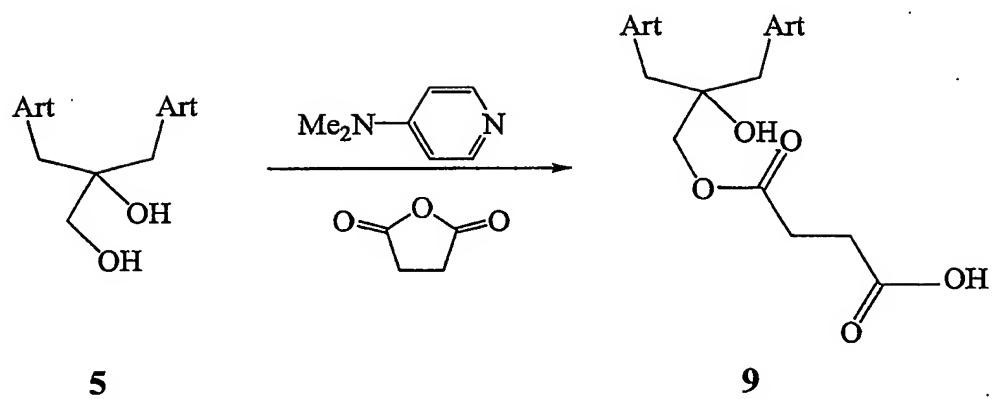
Fig. 15h



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8a

FIGURE 16



5

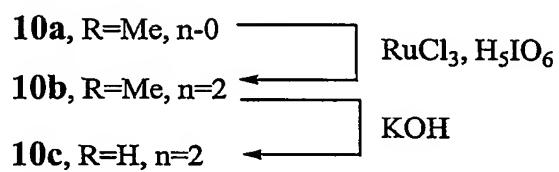
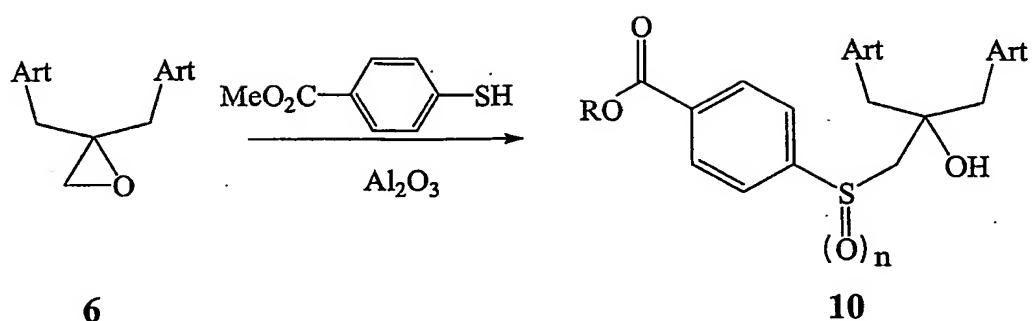
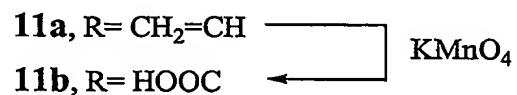
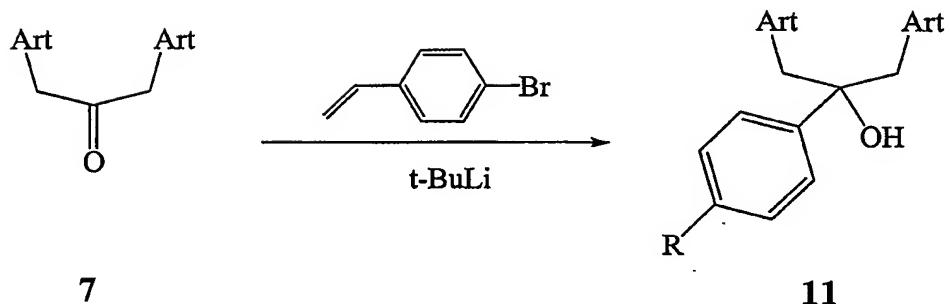
9

FIGURE 17

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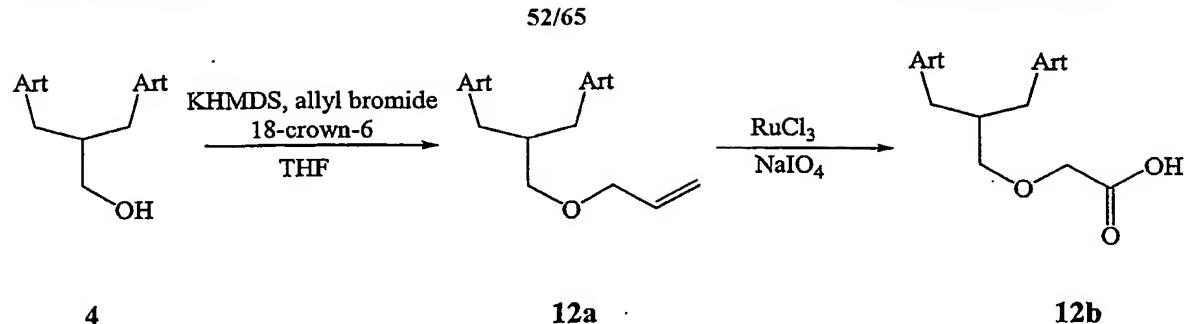
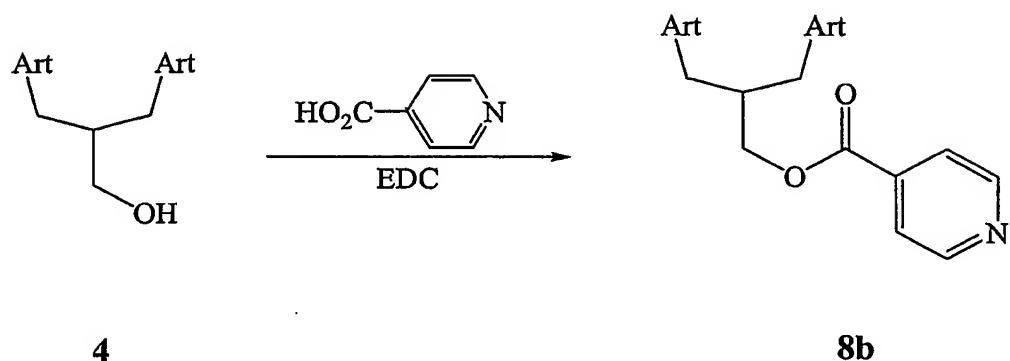
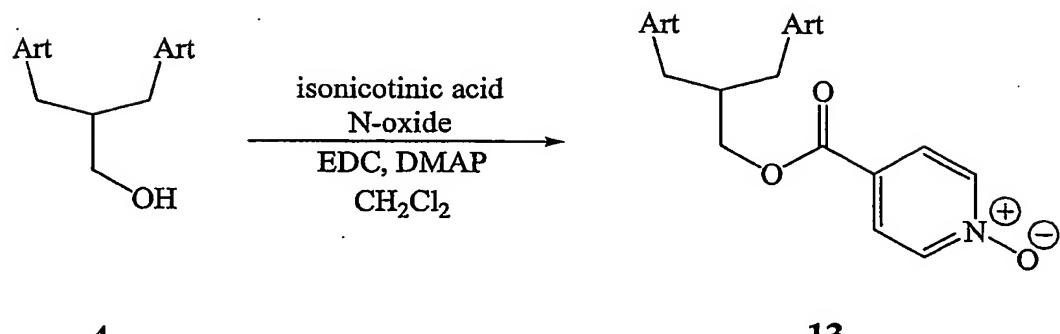
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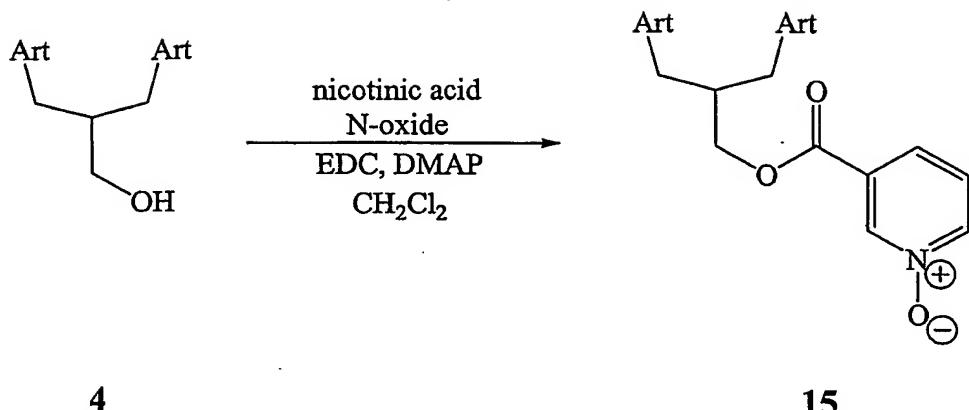
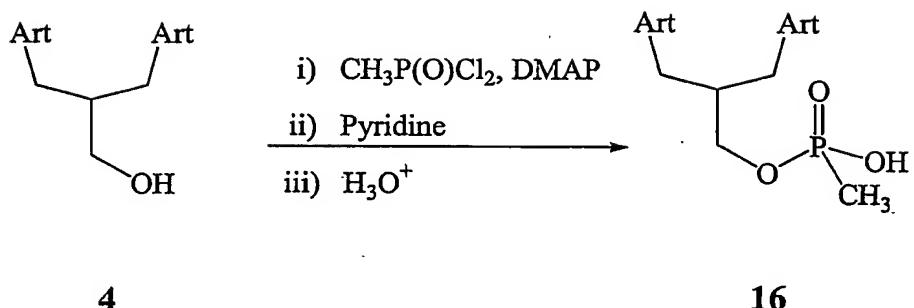
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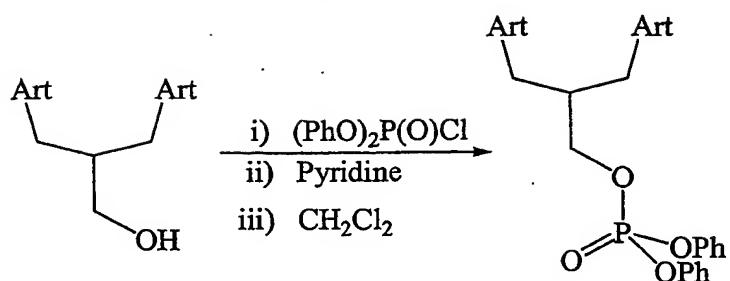
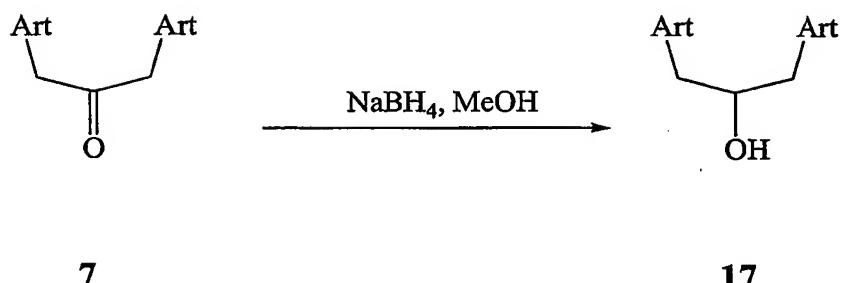
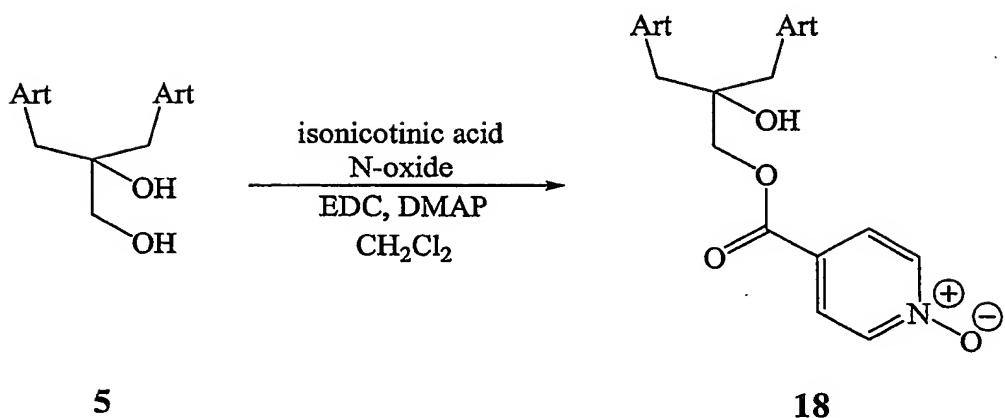
**FIGURE 18****FIGURE 19**

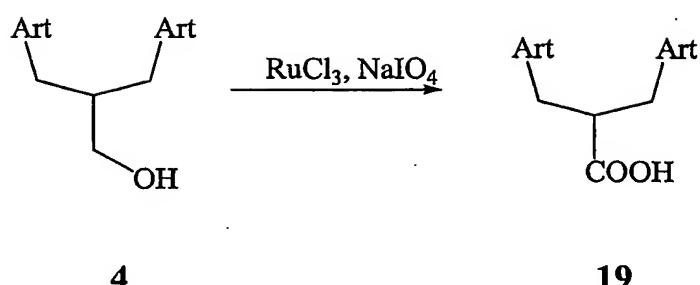
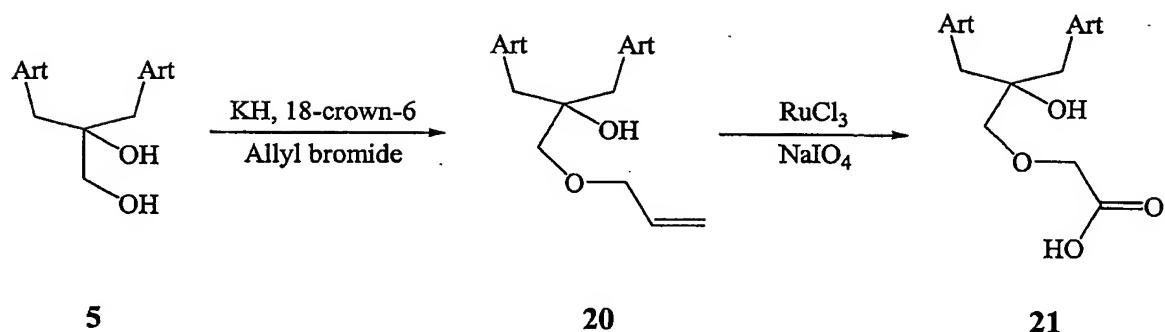
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**FIGURE 20****FIGURE 21****FIGURE 22**

**FIGURE 23****FIGURE 24**

**4****14****FIGURE 25****7****17****FIGURE 26****5****18****FIGURE 27**

**FIGURE 28****FIGURE 29**

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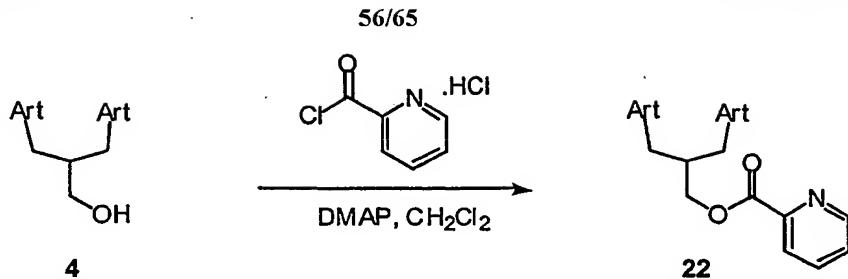


FIGURE 30

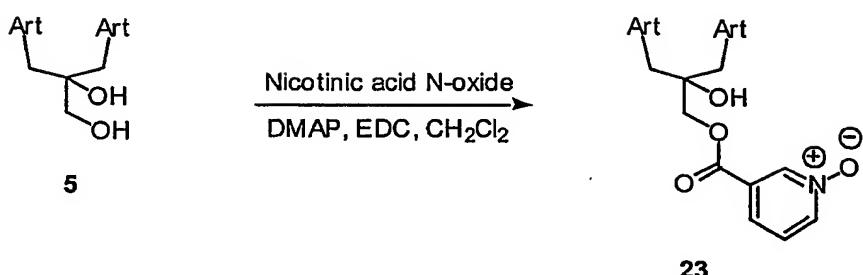


FIGURE 31

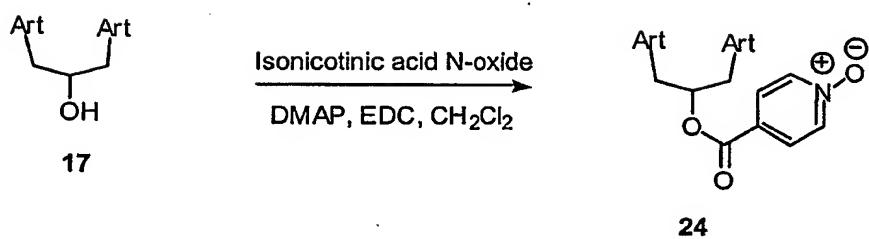
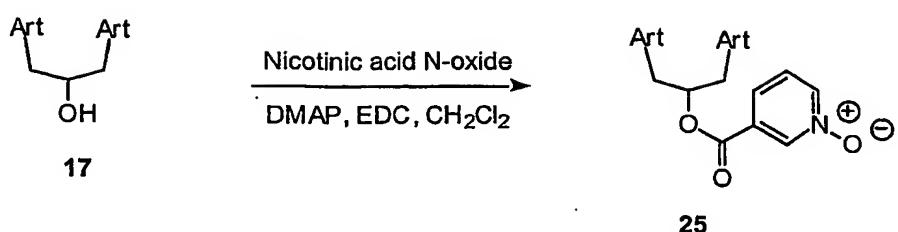
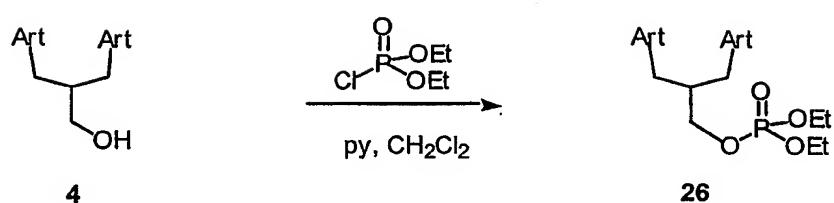
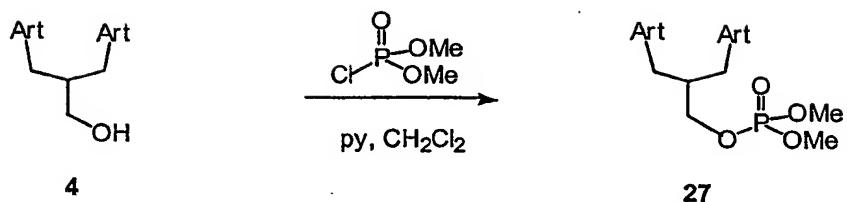


FIGURE 32

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**FIGURE 33****FIGURE 34****FIGURE 35**

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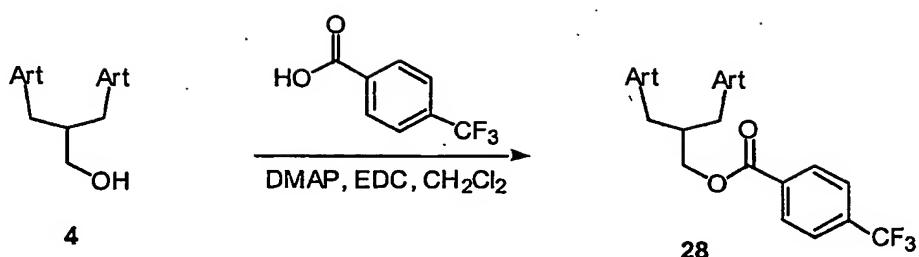


FIGURE 36

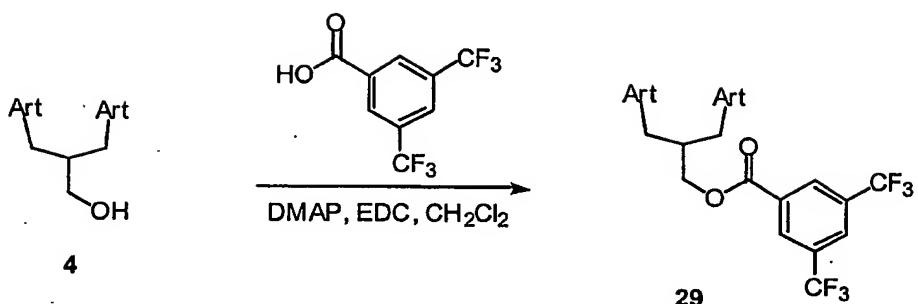


FIGURE 37

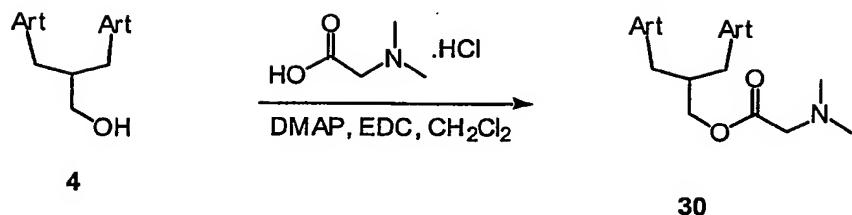


FIGURE 38

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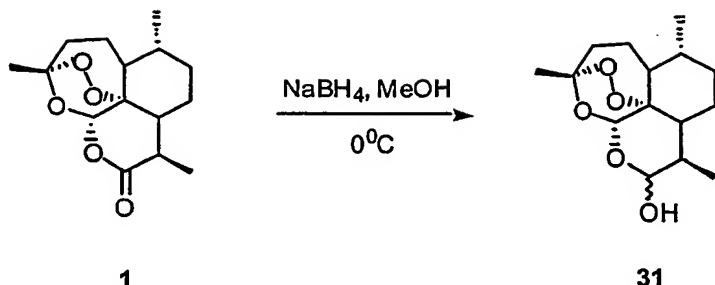


FIGURE 39

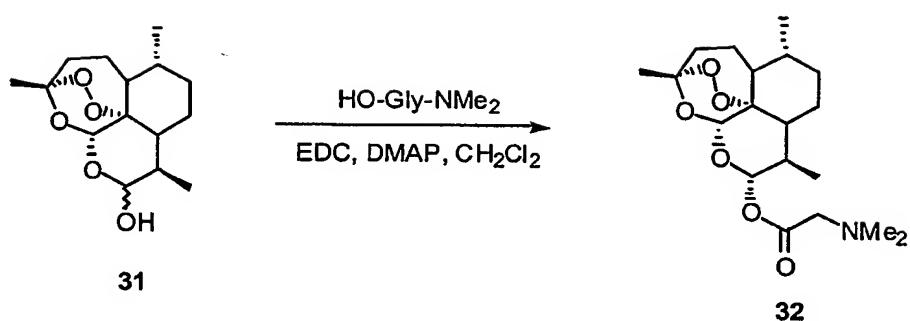


FIGURE 40

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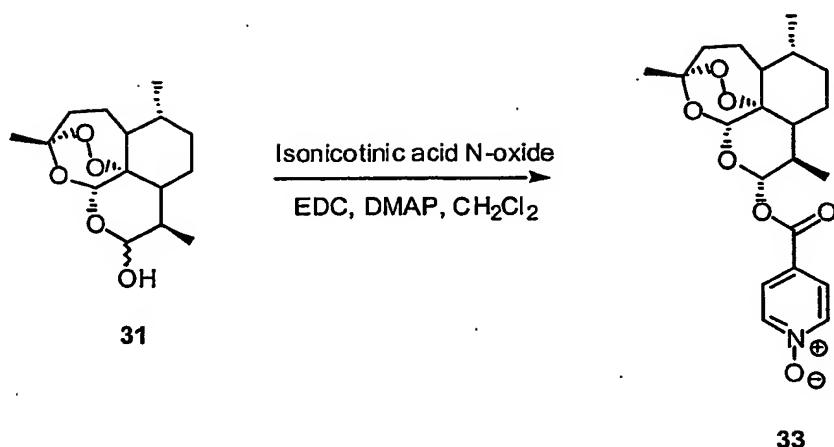


FIGURE 41

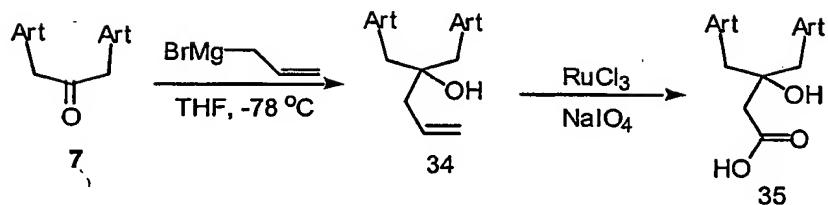


FIGURE 42

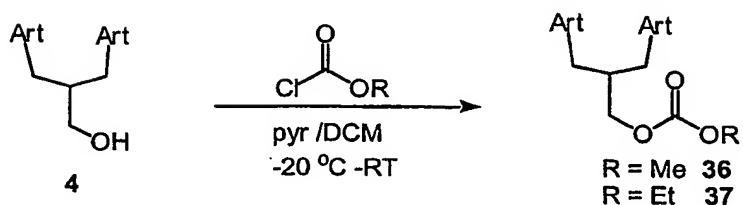


FIGURE 43

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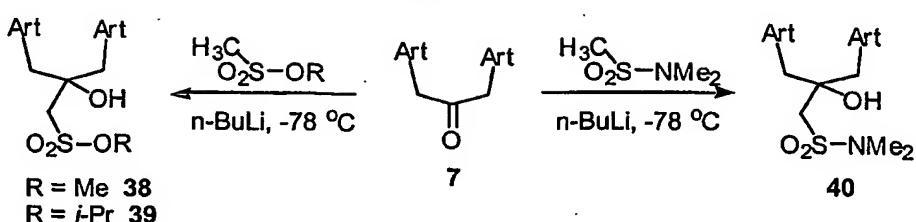


FIGURE 44

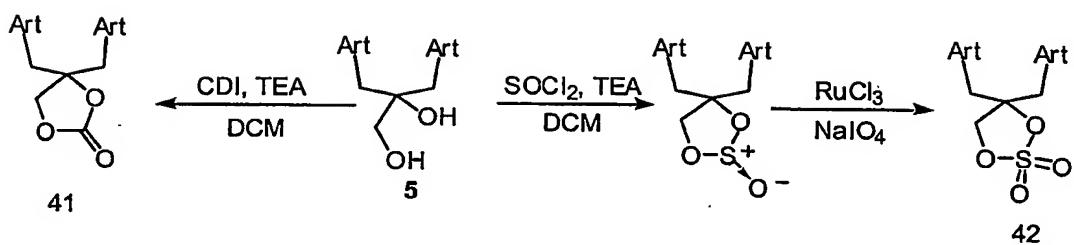


FIGURE 45

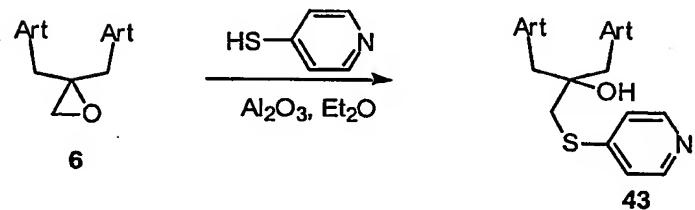
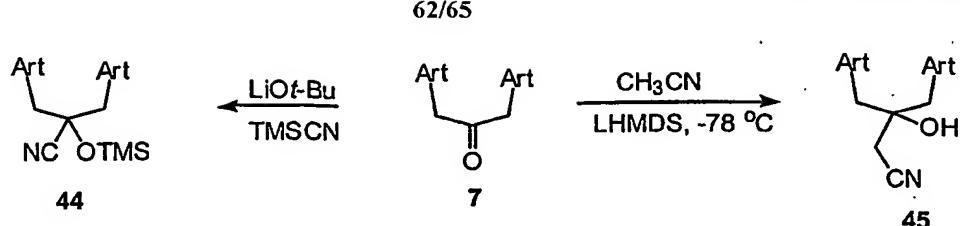
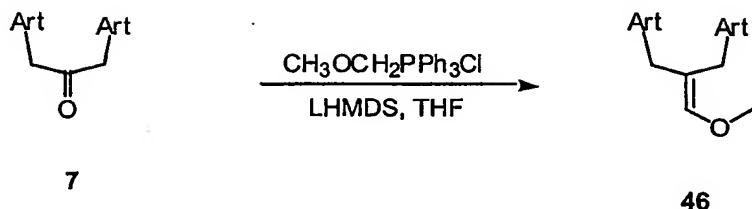
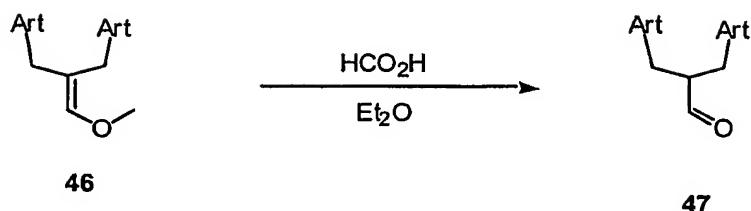
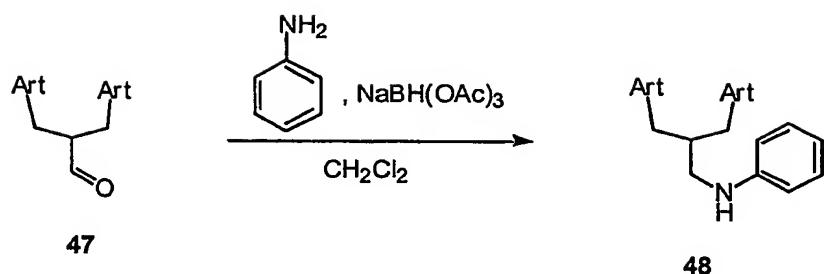


FIGURE 46

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**FIGURE 47****FIGURE 48****FIGURE 49****FIGURE 50**

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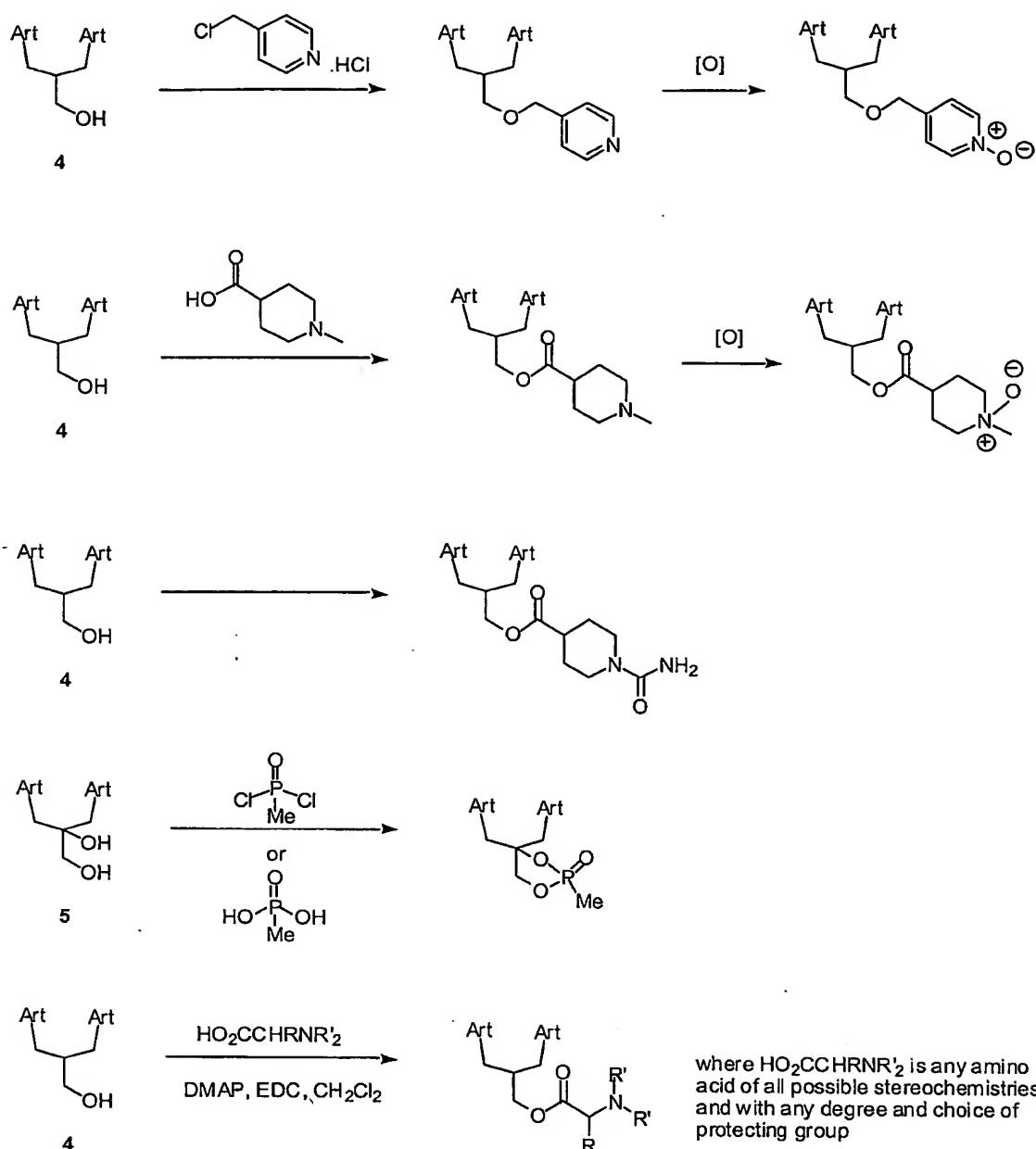


FIGURE 51

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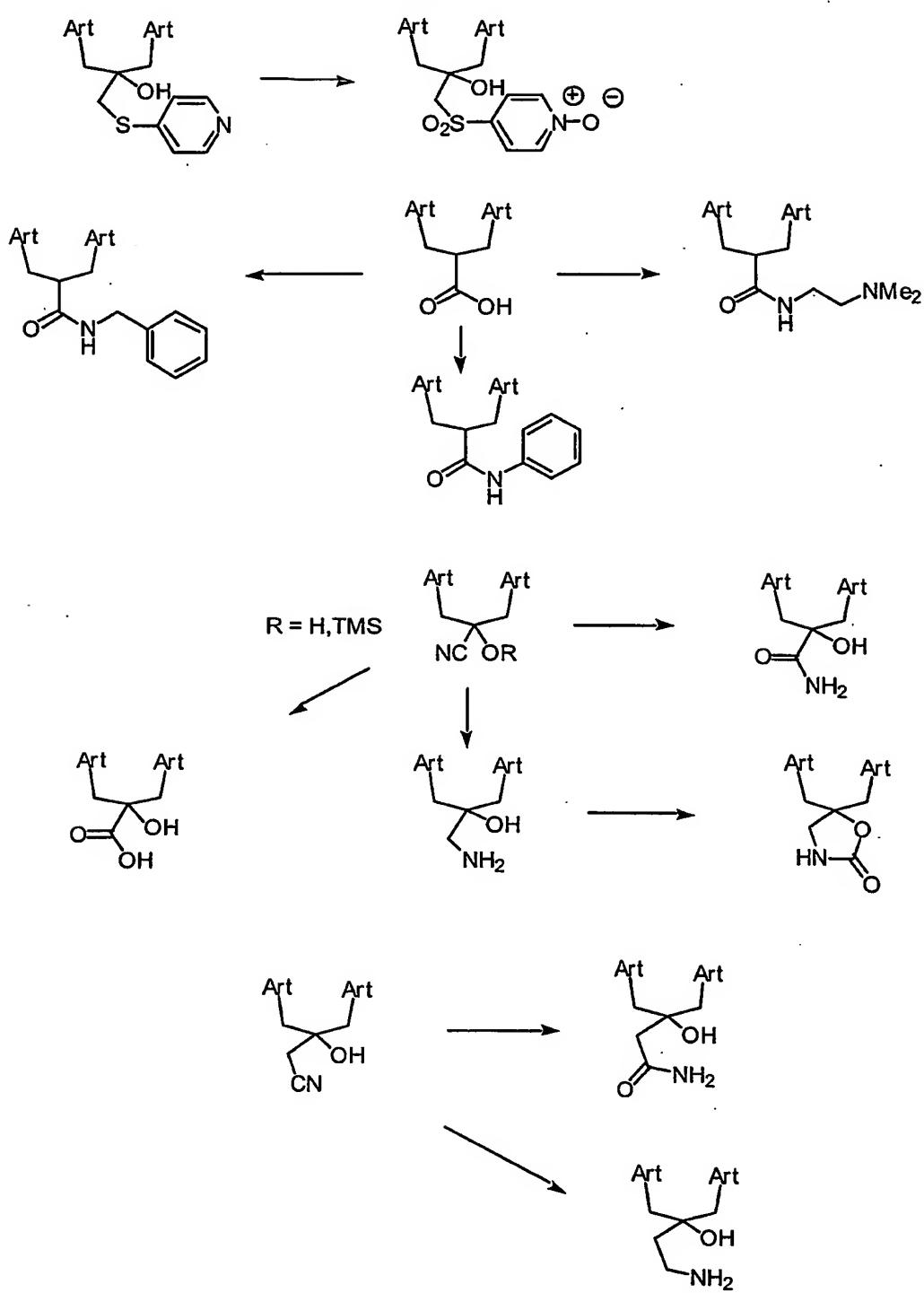
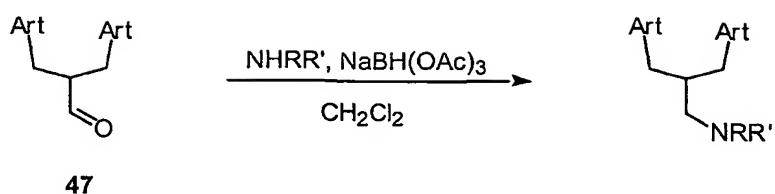


FIGURE 52

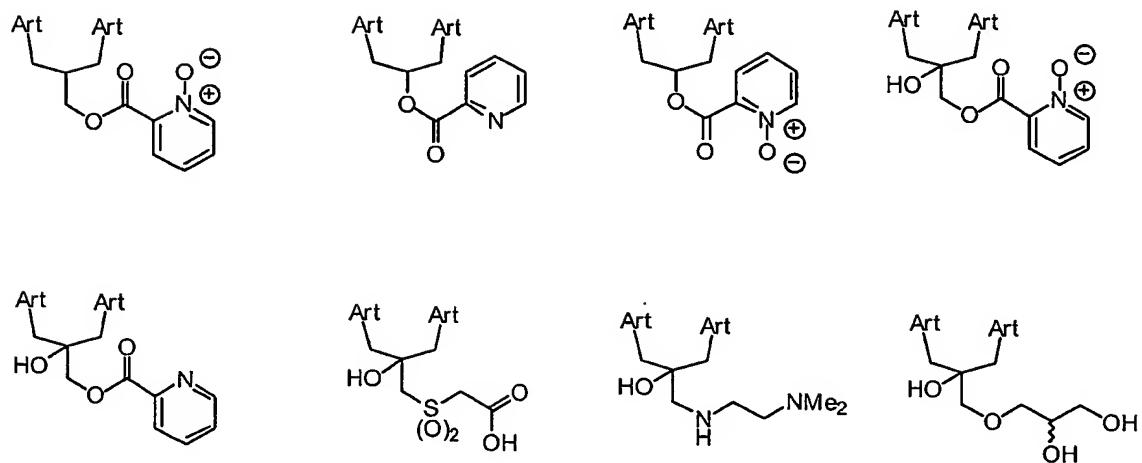
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$R = H, \text{alkyl, aryl, etc.}$
 $R' = H, \text{alkyl, aryl, etc.}$

FIGURE 53**FIGURE 54**

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